



Summer 2010

Missouri S&T Magazine Summer 2010

Missouri S&T Marketing and Communications Department

Miner Alumni Association

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MISSOURI S&T MAGAZINE

SUMMER 2010 | VOL. 84 NO. 2

Homecoming events
pages 24-27

A PUBLICATION OF THE MINER ALUMNI ASSOCIATION REPRESENTING ALUMNI OF MSM, UMR AND MISSOURI S&T



u n u s u a l f i n d s





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Miner Alumni Association Mission and Goals

MISSION

The association proactively strives to create an environment – embodying communication with and participation by Miner alumni and friends – to foster strong loyalty to the university and growth of the association. The association increases its financial strength and provides aid and support to deserving students, faculty and alumni.

GOALS

- Increase alumni pride in their association with Missouri S&T and the Miner Alumni Association.
- Increase alumni involvement, especially that of young alumni.
- Increase alumni contributions, both in the number of alumni making a financial commitment and in the dollars raised to benefit Missouri S&T and the Miner Alumni Association.
- Strengthen relationships with faculty, staff and students on behalf of the alumni association.

The officers and other members of the association's board of directors provide leadership and personal participation to achieve these goals and fulfill this mission. For their efforts to be a success, they need YOUR active participation as well, in whatever alumni activities you choose.

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SUMMER 2010



Correction

Wind power provided .51 percent of the energy generated in the United States in 2008. Net electricity imports accounted for .11 percent. These percentages were incorrectly reported as 8.45 and .02 in the graphic on page 9 of the Spring 2010 issue. The corrected graphic is available online at magazine.mst.edu.

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On the cover:

- U — Hall of Fame Room basketball
- N — North on Stonehenge
- U — McNutt Hall bike rack
- S — Havener Center walkway
- U — Curtis Laws Wilson Library handrail
- A — Butler-Carlton Hall interior
- L — Miner statue in McNutt Hall
- F — McNutt Hall Tool Shop
- I — Missouri S&T Stonehenge
- N — Curtis Laws Wilson Library books
- D — McNutt Hall Tool Shop
- S — Straumanis-James Hall



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MISSOURI S&T MAGAZINE

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From the editor



Joann Stiritz
Art and Production Editor

Every summer when I was a child, my grandmother and I hunted four-leaf clovers. We would spend hours searching her front yard for those elusive plants. I can't describe that exhilarating moment when we would finally come across such a rare find.

In many ways, creating the cover for this issue has given me that same feeling. We explored campus, scanning the grounds and buildings for unique shapes that created letters, and then preserved the memories by snapping these unexpected photos.

This issue, much like a four-leaf clover, is also an anomaly. It is a departure from our norm and includes some unexpected and exhilarating finds.

These "unusual finds" include a long-lost class ring that vanished and reappeared more than 20 years later; unique pieces of vintage furniture and the celebrities who bought them; a hydrographer who took to flight; and newly discovered fossils of the world's largest snake.

I think this issue is certainly the most random we've produced to date, but I'm hoping (with a little bit of luck) that you find it enjoyable.

Letters to the Editor



Joan Woodard really hit the target on her comments about the will to advance ("The Great Power Play," Spring 2010). We know, or at least used to know, how to reprocess nuclear fuel. New reprocessing plants were built at Columbia, S.C., and at Morris, Ill. These plants were never allowed to operate, thanks to Jimmy Carter, the self-proclaimed nuclear engineer from the nuclear Navy.

Three Mile Island is always cited as an example of what can happen with a nuclear plant. It is, but in a different sense, if you know what really happened. There was no release of radioactive material to the environs. The operators made some very bad decisions, but despite that, the vessel remained intact and there was no release to the environment. Chernobyl was a serious problem. Unlike other reactor designs, it had no containment to prevent the release of nuclear material.

My point is that we know, or at least knew, how to ship nuclear fuel, how to reprocess fuel, how to safely store the waste. We have a place to store the waste. We know how to use reprocessed fuel in the current nuclear plants and how to build breeder reactors. The problem for the last 35 years has been the politicians. Other countries in the world have moved ahead of the U.S.

I understand there are some nuclear stations in the design and licensing process. The reactors and designs that some friends are working on are from Hitachi-GE Nuclear Energy.

Larry Thompson, EE'63, MS NucE'66
Glen Ellyn, Ill.

As you point out in the Spring issue, energy is an all-important issue to our future. For electricity production, I think you may have sold short our most important production method. According to a report by the Rand Corp., the geothermal deposit in the Imperial Valley of California, alone, can supply ALL the electricity for the western half of the country, essentially free. The USGS reports on Gulf Coast geothermal deposits show they could provide much of the East's requirements, as well as producing enough methane for all our needs. This is clean energy, no CO₂, no Hg or SO₂ in the air, no ash piles, nothing! Why aren't we using this bonanza?

Chuck Dohogne, MetE'61
Rancho Palos Verdes, Calif.

I want to commend you all on publishing those energy articles (Spring 2010 issue). I was hoping you guys did that artwork on page 9, but I see Lawrence Livermore Labs probably originated it. That graphic illustration should be in every school, home, business, art museum and government office in America and the world. It is so to-the-point and clear to understand. You may want to copy that and send it out to alumni and caring individuals to educate more people about our energy needs. It could be the best talking point of reference for the entire nation.

The other illustration that is so to-the-point is on page 10, showing the massive coal quantity we have to burn to light up the world.

Bob Faenger, ME'62
Springfield, Mo.

Mars. Salt. Biofuels.

COMMON JUNCTURE • Melanie Mormile, Missouri S&T microbiologist

HER PASSION • Bacteria. Specifically those organisms that can live in extreme environments – places that don't support more complex life forms.

WHY SHE'S COOL • She helped prove the theory that life could exist on Mars. Mormile is one of a group of researchers studying organisms found in the salt-water lakes of western Australia. The salts and acidic pH of the water mimics conditions found on Mars. Mormile found that prokaryotes (simple organisms that lack a nucleus) could handle the unusual environment.

PLAN • Mormile hopes to return to Australia to isolate and characterize the bacteria to see what new species she might find. Once she knows what is there, she can learn things like what they eat and how they produce energy. Knowing details of their metabolism will help researchers understand the metabolism required to survive on Mars. She also hopes to figure out if the organisms have any applied uses – like in bioremediation or biofuel production. Enzymes in the acid-loving bacteria could help break down plant material to help form things like ethanol and hydrogen. In the meantime, Mormile samples mid-Missouri lakes.

CLAIM TO FAME • Missouri S&T Woman of the Year in 2008

Say What?

“They can teach you about it in the classroom, but until you see it first-hand you’re kind of oblivious as to how a company functions in the real world. As part of my internship, I got to see how the system really worked. I went to meetings, participated in projects and learned a lot from my boss, who was also my mentor.”

– **Christina Els**, a junior in business and management systems, discussing how her co-op job helped her learn about supply-chain management in a March 18 *St. Louis Post-Dispatch* story.

“The companies will try to negotiate with data with NHTSA to say this is the level that’s appropriate. They want it to be confined at the lower levels, a mechanical issue that doesn’t have a serious safety implication.”

– Engineering management professor **Ken Ragsdell**, ME’66, MS ME’67, discussing the Toyota recalls on the American Public Media program *Marketplace*, which is heard on National Public Radio stations nationally.

“Every job interview I’ve had so far was centered on the Formula car. They want to know about design teams.”

– **Adam Hardin**, a senior in mechanical engineering and member of the Formula Car Team, in an S&T news release about prospective employers.

by the numbers

112

Employers attending the Spring Career Fair at Missouri S&T.

21

Fortune 500 employers at the Spring Career Fair.

150

Costumes worn by the 62 members of the Miner League Theatre Players for the spring production of Disney’s *Beauty and the Beast*.

2,247

Trees on the S&T campus as inventoried by landscaping services as part of the university’s TRIM grant from the Missouri Department of Conservation.

5

New trees planted on campus as a result of TRIM grant findings.

21

Number of S&T students spending their summer in Bolivia, working with Engineers Without Borders to bring sustainable, clean water to rural regions.

FULL CIRCLE:

CLASS RING COMES HOME

by Mary Helen Stoltz (mhstoltz@mst.edu)
photos by B.A. Rupert



Pictured in front: Andy Schelin's class ring, lost in the 1980s. In back, its replacement.

Metropolitan St. Louis
Sewer District employees
Joe Anselmo and
Kim Rumpsa, an S&T
graduate student, worked
together to identify the
lost ring's owner.



In the fall of 1986, Joe Anselmo was performing a routine maintenance sweep of the sewers in the North St. Louis County city of Normandy, Mo., for the Metropolitan St. Louis Sewer District. Anselmo was inspecting and cleaning a sanitary manhole near Bermuda Road, removing debris from a basket that collects waste, when he found a ring.

Anselmo put the ring in his pocket and continued his work.

"Oftentimes, sewer workers find interesting items both in storm and sanitary collection sewers," Anselmo says. "Rings slip off fingers and fall into kitchen or bathroom sinks or toilet bowls. They flow through the system, ultimately to a treatment facility."

Later, while cleaning the ring, he tried it on.

"I realized the significance and honor associated with a class ring," Anselmo says. "The owner must have been devastated to lose such a priceless object."

The more he thought about that class ring, the more he was reminded of his parents' wish that at least one of their three children would go to college. Nearly 20 years later, that ring inspired Anselmo to enroll in Concordia University, where he earned a degree in liberal arts with a minor in human resources in 2006. He is the first college graduate in his family.

When Anselmo's proud parents bought him his own college class ring, he remembered the ring he had found two decades earlier and began his search for its owner.

Anselmo could tell by the engraving on the ring that it had come from Missouri S&T, then known as

UMR, so he enlisted the help of **Kim Rumpsa**, who is working toward a master's degree from Missouri S&T.

Rumpsa, an associate engineer for the St. Louis Metropolitan Sewer District, accepted the challenge.

Determined to find the ring's owner, Rumpsa tried contacting the company that manufactured the ring, but found that the company had been sold years ago. She then contacted **Renee Stone**, the accountant in the Miner Alumni Association, hoping that the initials "JAS" and the year 1976 would be enough information to go on. Stone narrowed it down to three alumni and called each to inquire about a missing class ring.

"On Aug. 19, 2009, at 11:34 a.m., **John Andrew "Andy" Schelin**, MetE'76, called me, leaving messages on both my desk phone and my work cell phone," Rumpsa says. She immediately returned the call.

"I told him who I was and asked him to describe the ring," Rumpsa says. "I actually already figured he was probably the owner, but unintentionally tortured him for a few minutes during the description process."

The two made plans to meet in Carthage, Mo., a few days later. Schelin would travel to the town near his hometown to meet Rumpsa, who would be traveling through on her way to a horse show. Rumpsa photographed Anselmo holding the ring so Schelin could see the man who found it.

Sadly, the meeting never took place.

On Friday, Aug. 21, the day before his scheduled meeting with Rumpsa, Schelin had a stroke on a Kansas golf course.

(continued on page 9)

For David Deatherage, the past is always present

by Lance Feyh (lfeyh@mst.edu)
photos by Emily Rasinski, *St. Louis Post-Dispatch*



David Deatherage, EMgt'92, is a professional shopper. He goes to estate sales, auctions and antique shows, always on the lookout for vintage furniture. It was a passion that started back in Rolla after he rented an apartment in an old house that had been divided. The shag carpet and window shades were turquoise. He says the interior of the place looked like it was out of *House and Garden* in 1952.

"In my 20s, I think I lived my life as an anachronism," Deatherage says. "I had vintage everything. I would wear a vintage Salvador Dali tie and a sharkskin suit to go to the grocery store."

Deatherage started buying 1940s and 1950s items for his apartment in Rolla. After graduating, he started collecting French Art Deco furniture and then became fascinated by Machine Age/Streamline American design from the 1930s. Today, he's probably most associated with buying and selling glamorous Hollywood Moderne furniture from the 1940s. The celebrity clients he's sold pieces to include Courtney Cox, Kate Spade, Jillian Michaels and Annie Leibovitz.

Deatherage's business is called Century Design Ltd. He is based in St. Louis, where he has a spacious loft. "When I put the loft together, I had the idea of it being like a 1940s movie set," he says. "I threw out the well-traveled concept that a loft should reflect its industrial past. I wanted the space to be more formal and elegant. In the 1930s and 1940s, movie sets were designed to have an element of fantasy and luxury that was a form of escapism from the Great Depression and World War II."

Among the pieces in his loft are a custom Dorothy Draper cabinet originally designed for the Fairmont Hotel in San Francisco in the 1940s, a Lucite Grosfeld House chair from 1939 and a pair of Tommi Parzinger sconces. Some of these items aren't for sale, but almost

everything else is. Deatherage has a warehouse space full of vintage furniture that's awaiting the right buyer. He says one of his most memorable finds was a pink lacquer Tommi Parzinger sideboard that had porcelain nail heads. It was purchased in New York and is currently in Malibu, Calif.

For a while, Deatherage was involved with a public gallery called Circa in the Central West End of St. Louis, but most of his business is done online through clients in other cities. "My head in many ways is in New York," he says. "Most of my clients are there."

Life in the art world is a long way from Missouri S&T, where Deatherage finished his engineering degree because, he says, he excelled at math and didn't know what else to do. He did manage to take an art history class during one of his last semesters, though.

"I was more interested in painting when I graduated than getting a job," he confesses. "But I think my degree was an exercise in discipline. I do think my studies have benefited me in the process of dissecting problems in all aspects of life."

These days, Deatherage is less likely to break out the sharkskin suit. While gaining experience and success as a dealer of vintage modern furnishings, his tastes became more refined. "As I get older," he says, "I hope others don't describe me as 'Retro.' I appreciate the design, the quality and the history of vintage furnishing. I take the best of the past with me, but I am more interested in living in the present."



Rumpsa returned the ring to Jennie Schelin, mother of the late John Andrew "Andy" Schelin, MetE'76, last fall. Jennie lives on a Missouri Century Farm that has been in the Schelin family since 1874.

CLASS RING COMES HOME (CONTINUED) ...

He died two days later at the age of 57.

"Andy was so looking forward to meeting Ms. Rumpsa and getting his ring back," says Jennie Schelin, Schelin's mom. "It meant so much to him."

Although Schelin never saw it again, his class ring made it safely home. In October, Rumpsa met Jennie Schelin and her daughter, Ingrid, at the Flying J truck stop in Carthage, Mo., to deliver the ring. Jennie keeps it at the Schelin family farm, a Missouri Century Farm in Verona, Mo. The farm has been in her husband's family since 1874.

Schelin's dad, Albert Schelin, began writing the history of the homestead. Since his death, Jennie updates the story frequently to add family milestones. Milestones like the story of Andy's ring — and the people who helped return it.

For Anselmo, the story is bittersweet. In November, Jennie Schelin sent him a letter of thanks for returning her son's ring.

"The letter shared some details of Andy's life," Anselmo says. "Its message was full of a mother's love. It reminded me of the love my mother always offered, the kind of love only a mom can provide."

Although he and Mrs. Schelin have never met in person, there is a bond between the two.

"We have built a certain connection through the ring," Anselmo says. "A circle of life and friendship has been formed."

Strange things in the Archives

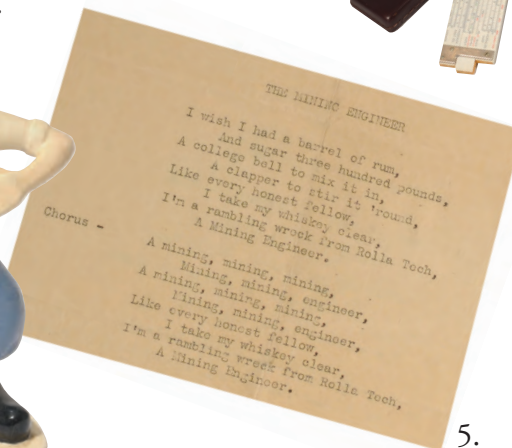
Established in 1978, the Missouri S&T Archives houses the historical, legal and cultural records of the university. In many cases these are documents and photographs, but the archives also preserves interesting campus artifacts. Here are a few of the more unusual finds.



1.



3.



5.



7.



2.

1.

The **Thomas W. Kelly**, MinE'40, collection includes his metal MSM diploma, the flag that was draped over his coffin after he was killed in France during World War II and a photo of him with Winston Churchill in France. The Quadrangle's Kelly Hall was named after him.

3.

William Quinn of St. Louis made six ceramic Joe Miner figurines for the 1951 *Rollamo*. They depict Joe at different stages of college life.

5.

The song "The Mining Engineer" was found in the collection of **Arthur W.J. Retzel** NDD'41.

7.

The archives houses an impressive collection of slide rules, essential tools to engineers in the days before calculators.

2.

Brass rails like this one were used to enclose the MSM exhibit at the 1904 World's Fair in St. Louis. There are six in the archives collection. Until recently, they were used to enclose the St. Pat statue in the Curtis Laws Wilson Library.

4.

Arthur Shrubsall MetE'33, wrote about an incident on the MSM Swim Team when he was 92 years old.

6.

The extensive **Claire V. Mann** collection includes many historical items from the surrounding area, including an original 1858 map of Rolla on tracing paper.

8.

Robert Brickner, son of **Hugo Brickner**, CE'30, and **Lorraine Love**, the Queen of Love and Beauty 1927, donated this vintage camera in addition to photos, building plans, hand-carved items from the Far East and money from every country in that area. The younger Brickner graduated from the Virginia Military Institute and Stanford, spent time in the military as a civil engineer and then worked for civilian companies building roads and bridges in the Far East during and after the Vietnam War.



6.

8.

JOHN HARRIS: WINGING IT OVER KITTY HAWK

by Linda Fulps (fulpsl@mst.edu)



Photo by James Seal

“We ran up and down the dunes like crazy people, trying to figure it out,” says **John Harris**, GeoE’70, of his first hang gliding attempts in 1973.

For his maiden flight, Harris picked what he thought was the ideal location — the sand dunes of Jockey’s Ridge State Park near Nags Head, N.C., about 5 miles south of Kitty Hawk, where the Wright brothers made their historic flight.

His reviews of the 8 mm film showing take-off and landing techniques proved fruitful: One flight and Harris was hooked. The hydrographer who had spent his days surveying and mapping the ocean floor decided to give up his day job to pursue a career in hang gliding.

Coworkers and family members thought he was crazy, but Harris was unfazed. “The concept was so exciting,” he says. “I thought this was the right time to try it.” He felt secure that, being a recent grad, he could easily find another job if the venture failed.

Fortunately, he never had to test his theory.

When Harris first formed Kitty Hawk Kites in 1974, it was housed in a garage, with an actual outhouse. Five years later a new structure was built for the hang gliding school, and now Kitty Hawk Kites operates the largest hang gliding school in the world, teaching about 8,000 students annually. For Harris, teaching hang gliding is the best job in the company.

“The students’ excitement and the expressions on their faces are priceless,” he says. “Their gratitude is tremendously rewarding, especially for the short period of time it takes.” Students can fly solo within an hour. “They may be only 5-10 feet above the ground, on the dunes, but they’re flying.”

Harris knew Kitty Hawk Kites would do well, but he miscalculated which area would be most successful. “Hang gliding was such a great experience for me; I thought so many people

would want to do it,” he says. “I expected to sell lots of equipment, but found only a small percentage of the population do it as a lifetime sport.” The company’s most lucrative area turned out to be its retail sales of kites and T-shirts.

In addition to the 17 stores, the company has expanded its outdoor recreation activities to include kiteboarding, parasailing and kayak eco-tours.

In the company’s early days, a visitor stopped by and introduced himself. Harris was stunned to discover the man was Francis Rogallo, who, along with his wife Gertrude, invented the Rogallo wing, a self-inflating flexible wing — the precursor to the modern hang glider, paraglider and kiteboarding kites. A former NASA scientist, Rogallo had retired to the area, and the pair became close friends.

Rogallo was 62 when he first learned to hang glide, and took his last flight when he was 80. He died last year at age 97. “Francis was a gentleman who was incredibly generous with his time,” says Harris. “He had an amazing mind for finding simple solutions to complex problems.”

Harris credits the skills he learned at Missouri S&T with helping him muster the discipline needed to run his business, and to analyze and solve problems he encounters. He says the words of biologist Thomas H. Huxley sum up his time in Rolla best: “Perhaps the most valuable result of all education is the ability to make yourself do the thing you have to do, when it ought to be done, whether you like it or not; it is the first lesson that ought to be learned; and however early a man’s training begins, it is probably the last lesson that he learns thoroughly.”

He’s pulling back some now after being “hands on” for years. He still hang glides, though, just not as often. Or as high. “These days,” he says, “I usually stay on the dunes at Jockey’s Ridge.”

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THEY’RE FLYING.”**

— JOHN HARRIS



illustration by Jason Bourque, University of Florida

Snakeasaurus:

S&T grad makes a BIG discovery

by Lance Feyh (lfeyh@mst.edu)

Carlos Jaramillo, MS GGph'95, found the fossils of *Titanoboa* in an open coal pit in Colombia.

The hefty vertebrae of *Titanoboa* (right) dwarfs that of a modern anaconda.

5.1 m (17 ft)

photo by Jason Head and John Bloch, University of Florida

As miners dig deeper and deeper into an open coal pit in Colombia, millions of years of history are displaced. On a fossil-hunting expedition to one of these pits in 2006, **Carlos Jaramillo's** team found some big bones that belonged to a super-sized creature.

Sixty million years ago, not long after the dinosaurs died out, the tropics were warmer than they are today. And the creatures, though not dinosaurs, were bigger. Jaramillo, MS GGph'95, a scientist at the Smithsonian Tropical Research Institute in Panama, figured the vertebrae he found belonged to a massive crocodile.

"Two years later, a student compared the vertebrae to the skeleton of a modern anaconda," says Jaramillo. "Then we thought, 'ah, yes, we have a big snake!'"

This constrictor, now considered to be the largest snake to have ever slithered the Earth, would have made a modern day anaconda look like a glorified earthworm. Jaramillo says his team actually ended up finding the fossils of 28 different snakes, ranging in size from 40 to 50 feet long with a weight in the neighborhood of 2,500-pounds.

Jaramillo and co-researchers named the constrictor *Titanoboa*. They published their findings in the journal *Nature* in February 2009.

In addition to being the biggest snake, *Titanoboa* is the largest non-marine vertebrate ever discovered. It fed on crocodiles and giant turtles by squeezing them to death and swallowing them whole. Previously, the largest known snake was *Gigantophis*, which was at least 33 feet long and lived in Egypt about 39 million years ago. Today, the longest snake is the reticulated python, which grows up to

32 feet. The anaconda is bulkier, but maxes out at 25 feet.

Open coal pits like the one in Colombia are excellent places to find evidence from the past because they preserve organic matter well. Jaramillo has found pollen, flowers, seeds, fruits, crocodiles, turtles, lizards, fresh water barracudas, crabs, bivalves, gastropods, echinoids, brachiopods, you name it. One common denominator among a lot of the bones and fossils dating back to approximately 60 million years ago is their size. The generous proportions can be attributed to climate.

Cold-blooded animals that depend on size to maintain metabolism grow bigger in warmer environments. According to Jaramillo, plants and animals like *Titanoboa* were living at temperatures that were 7 to 10 degrees higher than they are now. Carbon dioxide levels were also found to be elevated. That means tropical rainforests had the potential to thrive during past periods of global warming.

Jaramillo's scientific studies have taken him to Panama, Brazil, Peru, Ecuador, Venezuela, Costa Rica and Nigeria; and he goes back to Colombia often. In his line of work, Jaramillo says he sees plenty of snakes that are still very much alive: "Big ones, small ones, ones with poison, without poison ... it's a common animal we find in the field. You have to learn to live with them."

But, fortunately, none of us has to learn to live with a snake as large as *Titanoboa*.

"Oh, I wouldn't want to meet up with *Titanoboa*," Jaramillo says quickly, thinking about the consequences of such an encounter. "My God!"



Unexpected gift gives solar racers a big boost

Alan, EE'50, and Patricia Goodding were smart, hard-working, frugal people. They bought their first house for cash and then traded up as they could afford it. They were never among the big donors to Alan's alma mater while they were living; but their \$845,000 estate gift to the Solar Car Team is going to make a big difference far into the future.

The gift was designated specifically for the Solar Car Team, which came as a surprise to officials at Missouri S&T. And it's already making a difference. Of the \$845,000 total in the Alan and Patricia Goodding Family Trust, \$145,000 was used by the team to purchase high-end solar cells (triple junction gallium cells) that are being employed during the 2010 race this summer.

"Without this gift, the team was facing a decision of having to use less expensive cells at an efficiency of less than 20 percent," says **Paul Hirtz**, EMgt'95, MS EMgt'97, PhD EMgt'02, interim director of S&T's Student Design and Experiential Learning Center. "Competing with the top teams would have been next to impossible."

The remaining \$700,000 has been placed in an endowment. Hirtz says the endowment should generate \$35,000 in annual support for the team, nearly 25 percent of the team's budget.

Alan Goodding was always interested in new electrical products and innovations. He flew P-51 Mustangs over Italy during World War II. He went to work for McDonnell Douglas (now Boeing) after graduation, designing wiring and circuits for aircraft. He spent the remainder of his career designing lighting systems and signals for the Missouri Department of Transportation.

Patricia Goodding held a Ph.D. and was a teacher and a speech pathologist. Pat passed away in 2006 and Alan died in 2009.

Both of the Gooddings enjoyed sports and apparently got a lot of joy out of following the Solar Car Team, so they probably would have appreciated hearing Hirtz's reactions to their estate gift. "This gift is going to make it possible for the S&T team to play on a more level playing field with teams like the University of Michigan — the New York Yankees of solar car racing," Hirtz says. "We would be more like the Cardinals, I guess, the second-best historical team when it comes to championships, and an easier team to love."



(Above) The late Patricia and Alan Goodding. (At left) The Gooddings were avid ice skaters.

Road Race – American Solar Challenge (ASC)

Saturday, June 19:

Travel day /Support Vehicle Inspections, Broken Arrow, Okla.

Sunday, June 20:

Start in Broken Arrow, Okla.; must reach Neosho, Mo., checkpoint

Monday, June 21: Finish in Topeka, Kan.

Tuesday, June 22:

Start in Topeka, Kan.; must reach Jefferson City, Mo., checkpoint

Wednesday, June 23: Finish in Rolla, Mo.

Thursday, June 24:

Start in Rolla, Mo.; must reach Alton, Ill., checkpoint

Friday, June 25: Finish in Normal, Ill.

Saturday, June 26: Start in Normal, Ill.; finish in Naperville, Ill.

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Miner Pride Weekend

April 23-25, 2010



Miner Pride weekend brought together hundreds of alumni, friends, faculty and staff to celebrate the success of Missouri S&T's most ambitious capital campaign, reflect upon the ways private gifts have changed the lives of current and future students, and inspire others to follow their lead. This historic weekend included a ground-

breaking ceremony for the new Hasselmann Alumni House, a Campaign Celebration event thanking the 22,000 Advancing Excellence Campaign donors, a casual and interactive dinner honoring S&T's scholarship donors and recipients, and the university's annual Order of the Golden Shillelagh (OGS) donor society event.



1. Alumni scholarship recipients
2. **Marianne Ward** of the Miner Alumni Association
3. Chancellor **John F. Carney III** speaking during the celebration
4. **Micah Weber**, CpEng'10, **Robert Bay**, CE'49, **Perrin Roller**, GeoE'80, **Carney**, Rolla Mayor **Bill Jenks**, **Darlene Ramsay**, MetE'84, **Matt Coco**, CE'66, and **Joe Miner**
5. **Barbi Wheelden**, ChE'10, discussing her EWB experience
6. **Paula McBurnett**, development officer, and **Hugh**, EMgt'72, and **Linda Cole**
7. **Ted Weise**, EE'67, and **Gary Forsee**, CE'72
8. Newly inducted OGS members
9. **Fred Kummer**, CE'55, **Forsee**, and new OGS members **Ken and Marian Clark** at the OGS banquet



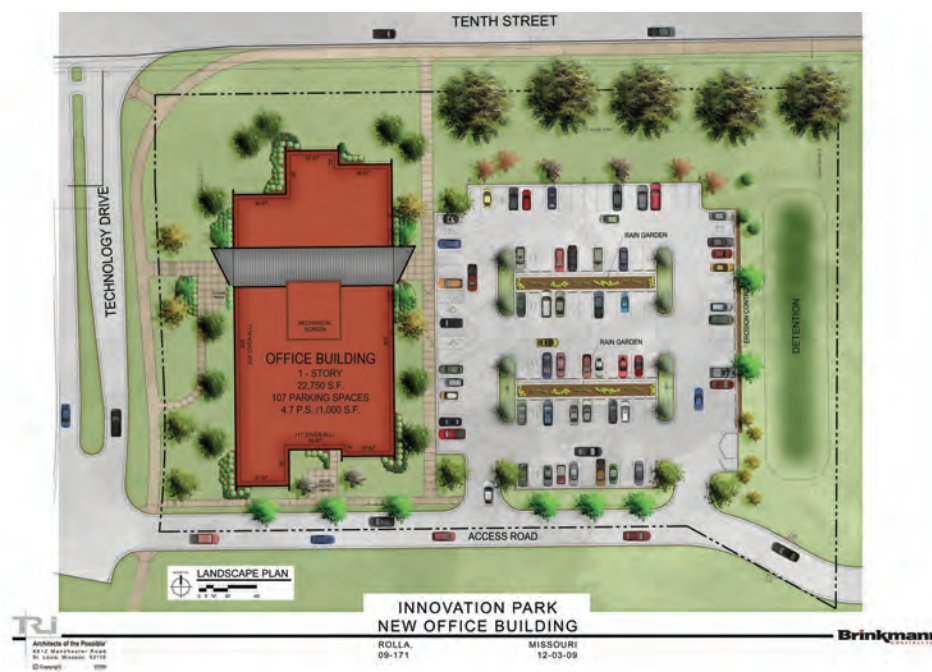
Innovation Park takes shape



Construction began this spring on a 22,750-square-foot general office building on the northeast corner of Missouri S&T's Golf Course. It is the first building of Innovation Park, a planned research park on the Missouri S&T campus. Brinkmann Constructors of Chesterfield, Mo., was awarded the design-build construction contract.

When completed, the building will provide roughly 18,500 square feet of office suites and shared office space for tenants. Completion is expected in October 2010.

(Above) An artist's rendering of the first Innovation Park office building. (At right) The building will sit on what was the golf course's driving range.



Briefly

Harvest Collier, vice provost for undergraduate studies, was one of 10 U.S. educators named Outstanding First-Year Student Advocates by the National Resource Center for the First-Year Experience and Students in Transition.

Delbert Day, CerE'58, Curators' Professor emeritus of ceramic engineering, received the 2010 Outstanding Alumni Service Award from the University of Missouri Alliance of Alumni Associations and Extension.

Sanjay Madria, associate professor of computer science, was awarded his third Air Force Research Laboratories (AFRL) visiting summer faculty fellowship by the American Society for Engineering Education (ASEE). He was awarded similar fellowships in 2008 and 2009. Madria will work in the laboratory in Rome, N.Y.

St. Pat's 2010

Follies, street painting, the court, parade and after-parade parties kept the "best ever" tradition alive in Rolla.



St. Pat's royalty

Stephanie Rostad, a senior in civil engineering from Waynesville, Mo., and immediate past Student Council president, was crowned the Queen of Love and Beauty. **Michael Schwartz**, a senior in civil engineering and newly elected Student Council President from Foley, Mo., portrayed St. Patrick.

Also during St. Pat's 2010, the St. Pat's Celebration Committee awarded the following eight faculty, staff, alumni and community leaders the title Honorary Knight of St. Patrick:

Robert Brinkmann, CE'71, of St. Albans, Mo., president of Brinkmann Constructors of Chesterfield, Mo.

Jim Duncan of Rolla, manager of custodial and landscape services at Missouri S&T

Jay W. Goff of Rolla, vice provost and dean of enrollment management

Michael Gross, MetE'88, MS MetE'94, of Owensboro, Ky., vice president of quality, environment, health and safety at Daicel Safety System America/Daicel Safety Technologies America

Kurt Kosbar of Rolla, associate chair for laboratory development in electrical and computer engineering and head of the International Foundation for Telemetering's Telemetry Learning Center at Missouri S&T

John Slowensky of Rolla, head director of instrumental music for the Rolla Public School District

Paul Worsey of Rolla, professor of mining and nuclear engineering and explosives expert at Missouri S&T

Letha Young of Rolla, university police sergeant at Missouri S&T.

Learning abroad ... from Rolla

When final presentations were given in Missouri S&T's Strategic Enterprise Management Systems course last semester, half the class may have been wearing pajamas. That's because half of the students took the course from Amsterdam, where class begins seven hours later than in Missouri.

The S&T students teamed with a class from another continent. They used a variety of technological tools to simulate a working team experience while forecasting financial results for a case company in South America, says course instructor **Bih-Ru Lea**, associate professor of business and information technology at Missouri S&T.

This partnership with students from HES (Hogeschool voor Economische Studies) Amsterdam was part of the SAP University Alliance. Missouri S&T was one of 190 schools in the U.S. to participate in the program, and the first university in the U.S. to collaborate globally on such a project.

The logistics of the collaboration were coordinated by Missouri S&T's Video Communications Center and a comparable group at HES. Students met face-to-face with their partners in Amsterdam via video conferencing. They also



Missouri S&T students give a class presentation in the Video Communication Center.

used Blackboard course management software, a live virtual classroom environment called WIMBA, text chats and voice chats.

The team's case study was a pioneer user of SAP, called Embotelladora Andina, a Coca Cola bottler located in Argentina, Chile and Brazil. Students used the company's public data from the last decade to forecast financials and budgets for the first quarter of 2010. The team also had complete access to all of the company's public records.

Building in the Big Easy

A group of 28 Missouri S&T students spent their spring break in New Orleans helping rebuild homes hit by Hurricane Katrina in 2005 as part of the Miner Challenge 2010, an alternative spring break program sponsored by the university's student life department.

The students worked with Rebuilding Together New Orleans, a volunteer service organization that repairs and renovates homes in that city. This is the third year S&T students have participated in an alternative spring break project under the Miner Challenge banner. Two years ago, the team worked with the Western Youth Network Inc. of Boone, N.C., and Habitat for Humanity on a project in Boone. Last year, Miner Challenge students worked with Habitat to build homes in Mobile, Ala., as part of Habitat's Collegiate Challenge.

Read more about the students' experiences and view photos on the Miner Challenge blog at <http://minerchallenge.wordpress.com>.



(Left to right) Missouri S&T students James Carroll, Jamila McNair, Matt Nickols, Nick Zimmerman, Kierstyn Harvey, homeowner Rose McCaskill and her daughter Nikki McCaskill, and Joni Burch (staff advisor).

Wiimote manufacturing

Ming Leu, professor of mechanical and aerospace engineering at Missouri S&T, is using remote-control devices from the popular Wii gaming console and putting them to work to improve manufacturing processes. He's using the devices — called Wiimotes — to record an assembly process in hopes of improving the way companies train workers, shortening cycle time, reducing workplace injuries and helping manufacturers improve the way they communicate with plants all over the globe.

What makes the Wii device so appealing to Leu is its wireless communication, which covers a good measurement range, and low cost. Just as gamers can use the Wiimote to simulate the movements of a tennis racquet or bowling ball, so a properly situated Wiimote camera can capture movements of an assembly-line worker throughout a variety of processes.

"The Wiimotes allow us to easily capture motion in the assembly process wirelessly," says Leu, the Keith and Pat Bailey Missouri Distinguished Professor of Integrated Product Manufacturing. "We can track that motion, analyze the processes and make improvements based on the data generated through the motion-capture."

The Wiimote camera works by detecting an infrared signal that latches onto light-emitting diode (LED) sensors and tracks the movement. In Leu's process, workpieces, assembly tools, robots or other machines, as well as assembly-line workers, would be equipped with LEDs that the Wiimote cameras can track. Any number of infrared cameras based on the Wiimote could be mounted throughout a factory to capture and record movements.

Leu is exploring the feasibility of this idea by recording a manufacturing process under way in his home department of mechanical and aerospace engineering. A group of students in that department is fabricating a microsatellite as part of a design project.



A parallel process to boost solar power

The usual method of connecting solar panels is in a series, one after the other. But just as one bad bulb in a string of Christmas lights can black out the entire set, so can a single solar panel disrupt the flow of electrical current through the other panels in a series.

"If one of the panels is shaded, dirty or damaged, it affects them all," says **Jonathan Kimball**, assistant professor of electrical and computer engineering. "The conventional approach to solar arrays inherently limits the amount of power they produce if there's any variation in the panels."

Rather than connecting solar panels in a series — where the electrical current must flow from one panel to get to the next — Kimball suggests parallel wiring for the panels. The parallel approach would connect each panel to its own power converter instead of sending the electrical current through a series of panels to a single converter.

Kimball is working on two different projects in this area. Through one project, funded by the U.S. Army's Leonard Wood Institute, based in nearby Fort Leonard Wood, Mo., he is developing a system that could be used for a forward operating base. The other project, funded by the National Science Foundation, is focused on developing a system that could be used for residential power.



Jonathan Kimball, assistant professor of electrical and computer engineering at Missouri S&T, is working to improve the efficiency of solar arrays by connecting solar panels in parallel, rather than in a series.

Robovision, now in 3-D

Soldiers and first responders may soon have a better way to evaluate the interior of dangerous structures, thanks to a joint project between Missouri S&T and the University of Missouri-Columbia.

As part of the project, which began in 2008, students at Missouri S&T built a remote-controlled robot equipped with an infrared camera and LIDAR (light detection and ranging) technology. Like radar, LIDAR sends out signals, in this case millions of laser points, to bounce off objects and provide feedback. The LIDAR-equipped robot then wirelessly relays detailed images to a laptop computer.

"We can get a 3-D map of rooms by sending the robot inside or having it look through a window," says **Norbert Maerz**, associate professor of geological engineering at Missouri S&T. "Even when you can't see through windows, you can still scan through them with LIDAR. Using this information, soldiers or first responders could evaluate safety issues and determine strategies."



A Rolla barbershop, as seen through the LIDAR.

Maerz and his students have used their prototype to map the inside of houses, businesses, Missouri S&T buildings, chambers in S&T's Experimental Mine and cave passages in the Mark Twain National Forest. "In theory, you could deploy this technology inside caves where terrorists might be hiding," Maerz says.

Geology of the Nile

In January, a group of Missouri S&T students and faculty traveled to Egypt to study geologic formations surrounding the Egyptian Nile, painting a picture of the evolutionary history of the past 6 million years.

The project is part of the International Research Experience for Students program, funded by the National Science Foundation and the Office of International Science and Engineering. The program gives students an opportunity to travel abroad and experience the academic and social culture of their host country while engaged in scientific research.

Leading the project is **Mohamed Abdel Salam**, associate professor of geological sciences and engineering at Missouri S&T. He has been conducting research in North East Africa for more than 15 years.

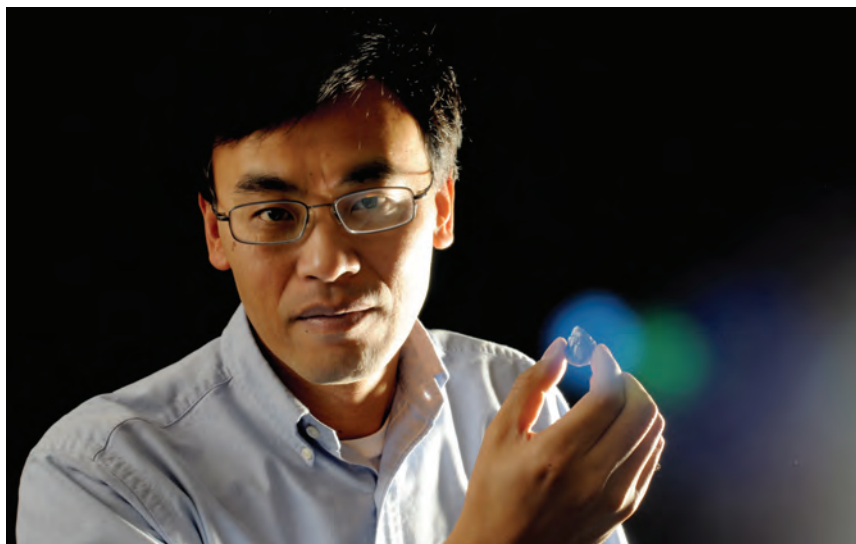
"The Nile River continues to beat all odds to exist," says Abdel Salam. "Geological evolution is fundamentally

important to understanding how long-lasting rivers evolve and how climate change and Earth movement affect their evolutionary path."

Interest in the evolutionary history of the region is not purely academic. "It is important for finding clean groundwater resources and fertile soil for agricultural activities today," says Abdel Salam.

In Egypt, Abdel Salam and the five Missouri S&T students focused on a small portion of the Nile near Aswan in southern Egypt. Students each worked on sub-projects during their 20 days of field work. Some mapped faults and rock layers along the Nile to understand the topographic control of the river channel, while geophysics teams took seismic readings, measuring shock waves through rock layers several hundred meters deep. Other teams measured gravitational and magnetic properties of the subsurface up to one kilometer deep.

Blue gem, greener fuel



Hai Xiao says sapphires can take the heat when it comes to making clean coal.

Sapphire, a brilliant blue gemstone most familiar in jewelry, may soon play an important part in making coal a cleaner fuel source.

Missouri S&T researchers are investigating sapphire's suitability as sensors that could survive the harsh, hot environment of coal-gasification plants. These plants produce synthesis gas (syngas), a synthetic form of natural gas that can be used for power generation and transportation.

Sapphire is also a tough mineral and, when grown as single-crystal sapphire, is able to withstand extreme temperatures. That's why the Missouri S&T researchers think it could handle the heat of coal gasification.

"It's a very harsh environment," **Hai Xiao**, associate professor of electrical and computer engineering at Missouri S&T, says of the systems that turn coal into syngas. Those environments also require precise temperature and pressure controls to make syngas as cleanly as possible.

"The high temperature ensures the efficient transformation of coal to syngas, creating less waste and sustaining a better environment," Xiao says.

One roadblock to the coal gasification technology is the lack of process control instrumentation that can handle the harsh environment. "There's a huge technology gap for sensing and monitoring in harsh environments in general," Xiao says.

Xiao and his colleagues believe sapphire can take the heat. But they still have to figure out how to turn the crystal into a sensor that is only about 100 microns in diameter — about the thickness of a human hair. The sensors will take the form of fibers.

The researchers' first task is to design and build the sensors with the ability to measure temperature as well as gas pressure. If laboratory tests prove successful, they will then explore the possibility of testing the sensors in actual production facilities, working with AmerenUE, a utility company based in St. Louis, to field-test the sensors.

The three-year research project began last October and is funded by the U.S. Department of Energy National Energy Technology Laboratory. Working with Xiao on the project are **H.L. Tsai**, professor of mechanical and aerospace engineering at Missouri S&T, and Junhang Dong, associate professor of chemical and materials engineering at the University of Cincinnati. AmerenUE staff are assisting the researchers.



What happened in Vegas ...

While organized crime weaves its way into Hollywood's versions of Las Vegas, the extent of the mob's actual involvement in the conception and development of the city is debatable.

Larry Gragg, chair and Curators' Teaching Professor of history and political science at Missouri S&T, and **Amanda Kamps**, Hist'09, presented papers on their Vegas-based research at the Far West Popular Culture and American Culture Associations' annual conference, held in March in Las Vegas.

"I have spent the last two years writing about mobsters in Las Vegas," Kamps says. "This was my first chance to actually visit 'Sin City' and see the places I've detailed in my work."

Gragg has had a longtime interest in the connections between organized crime and Las Vegas. "My paper, 'Film Depictions of Organized Crime in Las Vegas,' deals with the ways motion pictures contributed to the general beliefs Americans had about the mob's role in the development of Las Vegas after World War II," he says. He is also writing a book on the subject.

Kamps' paper focuses on the notorious mobster Benjamin "Bugsy" Siegel and the way he was able to use his various personae to open his Flamingo Hotel and Casino in 1946-1947, says Gragg.

Kamps says her study of Siegel offers great insight into the interactions between post-war Las Vegas and the mobsters who descended upon the frontier town. "My paper focuses on Siegel's use of his reputation as a brutal killer to accomplish his business goals," she says. "This not only demonstrates Bugsy's own deviousness, but also sheds light on how the perception of mobsters was perpetuated."

Terry Robinson: dual threat

story by John Kean (jkean@mst.edu)
photo by B.A. Rupert

Sometimes, it's just a matter of things falling into place.

After a standout high school career in football and track and field, **Terry Robinson** started college at the U.S. Air Force Academy. He spent a year in Colorado, then returned to his St. Louis home and has found a niche in the Missouri S&T athletic program in those two sports.

"I just did not feel that the military was a fit for me," Robinson says. "Missouri S&T is close to home and is a great engineering institution that I feel will grant me multiple job opportunities in the future."

While Robinson, a sophomore in civil engineering, is looking toward his future, he also has made a mark on the athletic field. In the fall, he is a cornerback on the football team and spends the rest of the year competing in track as a hurdler and sprinter.

After earning first-team all-league honors in football following the 2009 season, Robinson earned All-America honors in track in March by placing fifth in the 60-meter hurdles with a personal-best time of 8.02 seconds. He was also the Great Lakes Valley Conference champion in the 400-meters and the anchor of the 4x400-meter relay team.

Robinson picked up a couple of pieces of advice early in the season from Greg Foster, a silver medalist in the 110-meter hurdles at the 1984 Los Angeles Olympic Games, while Foster was in town to watch his son, Bryce, play basketball for the Miners.

"The most important thing I gained from that experience was that I have to run 'cocky' as he said," Robinson says. "I also had some problems standing tall approaching the hurdles — something I was working on with Coach (Kyle) Rutledge, but he put it in terms that apparently stuck."

This fall, Robinson is looking forward to the football season — his "first love" — where he will be playing under new head coach David Brown, who was a defensive back in his playing days and a coach with a strong defensive background.

"I can talk to Coach Brown about my credentials all day but in the end it will come down to what I do on the field," Robinson says. "So I will keep my mouth closed and show why I am the starter."



David Brown named Miners' head football coach

David Brown, an assistant coach who worked with one of the nation's top defenses at Ohio University for the past four seasons, is now head of the Missouri S&T football program.

Brown takes over for Kirby Cannon, who stepped down to join the staff at Central Michigan University. He is the 14th head coach in the history of the Miner program.

"Our team will play with great effort and lots of enthusiasm," Brown says. "We will place a high level of importance on special teams play. We'll use an aggressive, attacking style of defense and will get the ball in the hands of our playmakers on offense."

Brown was the defensive backs coach at Ohio and he has also worked with aspects of the special teams. He was in charge of the punt return unit and also assisted with the punt and kickoff teams.

During his stint at Ohio, the Bobcat defense was one of the best in the nation, ranking among the top 20 at the NCAA Division I Football Bowl Subdivision level in pass efficiency

defense and leading the nation with 38 turnovers gained in the 2009 season. That same year, the Bobcats won the Mid-America Conference's Eastern Division title and earned a berth to the Little Caesar's Pizza Bowl to face Marshall University, the Bobcats' second bowl berth during Brown's time at the school.

Prior to joining the staff at Ohio, Brown spent five seasons on the staff at Cal Polytechnic State University in San Luis Obispo, Calif., serving as the team's defensive coordinator in the 2004 and 2005 seasons. In the two years as defensive coordinator at his alma mater, Brown headed one of the top units in Division I-AA.



Brown

Miner swimmers place eighth at nationals; two from track team earn All-America honors

Missouri S&T's swimming team finished eighth at the NCAA Division II Swimming and Diving Championships, with four individuals and three relay teams finishing among the top eight in their events in the meet held in Canton, Ohio.

The Miners' highest individual finish came from mathematics junior **Zlatan Hamzic**, who came in fifth place in the 200-yard breaststroke, while **Zach Lemons**, a junior in aerospace engineering, placed sixth in that event and also had an eighth place showing in the 400-yard individual medley. **Andrew Schranck**, a sophomore in architectural engineering, recorded a sixth-place finish in the 200-yard butterfly.

The relay teams that finished among the top eight were the 400-yard freestyle relay quartet of **Hamilton Vernon**, a sophomore in chemistry, **David Sanchez-Turner**, a senior in engineering management, **Sean Deegan**, a freshman in aerospace engineering and Schranck; the 400-yard medley relay team of Deegan,

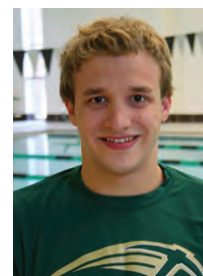
Hamzic, Schranck and Sanchez-Turner; and the 200-yard medley relay team of Schranck, Hamzic, **Paul Reinisch**, a senior in aerospace engineering, and Vernon.

The men's track team had two individual All-America efforts at the NCAA Division II Indoor Championships in Albuquerque, N.M., getting a fifth-place finish from civil engineering sophomore Terry Robinson in the 60-meter hurdles with his best time of the season of 8.02 seconds and an eighth place showing from mechanical engineering senior **Jared Anders** in the pole vault. (Read more about Robinson on page 22.)

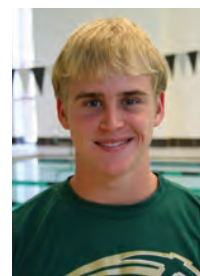
Anders was named the Great Lakes Valley Conference's "Field Athlete of the Year" after winning the pole vault and heptathlon at the conference's indoor



Anders



Lemons



Schranck

championships. Robinson was also a conference champion in the 400-meters and anchored the winning 4x400-meter relay team along with **Brendan Smith**, a junior in environmental engineering, **Bryan Kluge**, a junior in chemical engineering, and **Brandon Etzold**, a junior in metallurgical engineering. The Miners, who finished a close second to Indianapolis at the GLVC meet, also got a league title from civil engineering freshman triple jumper **Joe Smith**.

Miners of the Caribbean

hosted by the
Miner Alumni Association

X

Homecoming Weekend
October 1-3, 2010

A vast me maties, a high-sea adventure be settin' sail at Missouri University of Science and Technology on Oct. 1, jus' in time fer Homecomin'.

Drop anchor, and grab ye a mug and a keg to sit on. Thar be free booty, grub, shanties, an' great fun fer all as the swashbuckling Miner-r-rs face the Ranger-r-rs from Northwestern Oklahoma State University. Argh! It'll be a weekend to treasure.

Don't be a scallywag! Plunder all this and more at alumni.mst.edu/events/homecoming-html.

Awardees to be celebrated

Alumni Achievement Award

Presented in recognition of outstanding personal achievements by alumni in fields of academia or business, professional or civic endeavors.



Dean I. Lindstrom,
EE'79, president of
Novar, a Honeywell
company



Elizabeth A. Parry,
EMgt'83, coordinator
of K-20 STEM partnership
development for the
College of Engineering
at North Carolina State
University



Steve C. Sullivan,
EE'89, director of
research and
development at
Industrial Light and Magic

Robert V. Wolf Alumni Service Award

This award is presented in memory of **Robert V. Wolf, ME'51, MS ME'52**, one of the university's most dedicated alumni. It recognizes the dedicated service of alumni and friends to the university and to the Miner Alumni Association.



William F. Oberbeck Sr.,
MetE'39, retired business owner,
sales and consulting
engineer



William F. Oberbeck Jr.,
MetE'72, MS EMgt'76,
MS NucE'76, president
of control products and
vice president of Advance
Valve



Jon Carl Schneider,
AE'87, director of
technical and professional
development for The
Boeing Co.

Distinguished Young Alumni Award

Presented to alumni 40 years of age or younger who have demonstrated leadership ability, commitment to the service of others and a high level of achievement in their chosen careers or professions.



Ryan Howell,
ME'97,
PhD MetE'09,
major, U.S. Army



Jeffrey Vesley Rooks,
ChE'95, vice president
of quality excellence at
the Freedom Group



Patricia R. Spence,
EMgt'94, MS IST'05,
PhD candidate in
information sciences
and technology and
researcher at Penn
State University

Outstanding Student Advisor Award

The Miner Alumni Association will honor current advisors and recognize their efforts in assisting students with academic and career decisions.



Matt Buechler,
CSci'03, MS CSci'05,
lecturer in computer
science



Ronaldo Luna,
associate professor
of civil, architectural
and environmental
engineering



Stephen A. Raper,
EMgt'85, MS EMgt'87,
PhD EMgt'89, associate
professor of engineering
management and systems
engineering

Frank H. Mackaman Alumni Volunteer Service Award

Presented to an alumnus or alumna in recognition of his or her volunteer service to the Miner Alumni Association, the community and the alumni sections.



Richard T. Berning, CE'69,
retired director of public works
for Springfield, Ill.

Alumni Merit Award

Presented to faculty, friends of the campus or alumni for outstanding achievement or service to the campus or to the Miner Alumni Association.



Hansraj J. Patel, PetE'64,
MS PetE'65, entrepreneur in
the oil and gas industry

Honorary Life Member

An honorary life membership is awarded to friends of the university in appreciation of important services to the campus and the alumni association.



Chancellor **John F. Carney III,**
current chancellor of Missouri S&T

Homecoming Schedule of Events

X Thursday, Sept. 30

9 a.m. – noon

Geology and Geophysics Advisory Board Meeting

Havener Center

5 – 11:30 p.m.

Academy of Mechanical and Aerospace

Engineers Induction Ceremony

Havener Center

Reception begins at 5 p.m., dinner served at 7 p.m.

6 – 9 p.m.

Geology and Geophysics Banquet and Student Awards

Havener Center

Cost is \$25

Send RSVP to Katherine Mattison (kmattisn@mst.edu) or call 573-341-4616 and indicate if a vegetarian meal will be desired. Celebrate department chair Robert Laudon's retirement and the renaming of the student awards to the "Jeffrey Spooner Student Awards" in memory of Jeffrey Spooner, the first secretary of the Geology and Geophysics Advisory Board.

X Friday, Oct. 1

7:30 a.m. – 3:30 p.m.

Academy of Mechanical and Aerospace

Engineers Membership Meeting

Havener Center

Breakfast begins at 7:30 a.m., meeting begins at 8 a.m.

8 a.m. – 3:30 p.m.

Academy of Mechanical and Aerospace Engineers Spouse and Guest Event

Location TBA

8 a.m. – 5 p.m.

Miner Alumni Association Committee Meetings

Castleman Hall

8 a.m. – 5 p.m.

Missouri S&T Archives "Memories" Display

Curtis Laws Wilson Library

8 a.m. – 7 p.m.

Homecoming Registration

107 Castleman Hall

8:30 – 11:30 a.m.

Academy of Mines and Metallurgy Meeting

Havener Center

Breakfast will be followed by 9 a.m. meeting.

9 a.m.

Order of the Golden Shillelagh Executive Meeting

216 Parker Hall

3 – 4 p.m.

Department Open Houses

The following departments will host open houses:

- Business and Information Technology
- Chemistry
- Economics
- Electrical Engineering
- Engineering Management
- Mechanical and Aerospace Engineering

3:30 – 4 p.m.

Screening of *The Millennium Arch* documentary and announcement of the photography contest winners

Leach Theatre, Castleman Hall

For more information call James Bogan at 573-368-1910.

4 – 8 p.m.

Alumni Silver and Gold Gathering

Alumni Lounge Castleman Hall

Social hour 4 p.m.

Dinner 5:30 – 7 p.m.

Social time continues until 8 p.m.

Tickets for event:

- \$20 for adults
- \$8 for children ages 6 to 12, under 6 are free
- Golden Alumni who graduated in 1960 or before may purchase a maximum of two tickets for half price
- Dinner will include barbecued chicken and brisket
- \$1 beer and limited cash bar will be available.

4 – 8 p.m.

13th Annual Jackling Jocks Reunion

Castleman Hall

For information call 816-373-5978 or 979-690-3650.

X *Saturday, Oct. 2*

8 – 11 a.m.

Alumni Association Board of Directors Meeting

Havener Center

8 a.m. – 5 p.m.

Missouri S&T Archives “Memories” Display

Curtis Laws Wilson Library

10:30 a.m. – 1 p.m.

Homecoming Registration

Alumni tent outside Allgood-Bailey Stadium

11 a.m. – 1 p.m.

Kick-off Tailgate Party

Alumni tent outside Allgood-Bailey Stadium

Tickets for event:

- \$10 for adults
- \$5 for children ages 6 to 12
- Children under age 6 are admitted free
- Golden Alumni who graduated in 1960 or before may purchase a maximum of two tickets for half price
- Hot dogs, brats, \$1 beer and other tailgate goodies will be served.

11 a.m. – 1 p.m.

Missouri S&T Athletic Hall of Fame open to visitors

Gale Bullman Multi-Purpose Building

1 p.m.

Football Game Miners vs. Northwestern Oklahoma

Tickets for event:

- \$8 for adults and Golden Alumni
- \$5 for students ages 6 through high school
- Free for children under age 6 and S&T students with a valid student ID.

5:30 – 9 p.m.

Jackling Jocks Banquet

Zeno's Steak House

Social begins at 5:30 p.m. with dinner following.

For more information call 816-373-5978 or 979-690-3650.

6 – 9 p.m.

Alumni Association Miner Legends Banquet

Havener Center

Reception begins at 6 p.m., dinner at 6:30 p.m.

Some of our most distinguished alumni will receive prestigious Miner Alumni Association awards. The association's annual meeting will be held during this event.

Tickets for event:

- \$30 for buffet dinner with cash bar available

X *Sunday, Oct. 3*

1 p.m.

Missouri S&T Advisory Committee for

African-American Recruitment and Retention Meeting

Location TBA

Special celebrations during Homecoming

X **13th Annual Jackling Jocks Reunion**

For information call 816-373-5978 or 979-690-3650.

X **60th Anniversary of Corn Bowl Football Team**

X **The Millennium Arch 10th Anniversary Photography Contest**

To celebrate the 10th anniversary of the installation of Edwina Sandys' *The Millennium Arch*, the Campus Art Committee is sponsoring a photography contest. For more information, contact James Bogan at 573-368-1910.

Register online at alumni.mst.edu or call 800-JOMINER

X All alumni who return to Rolla should register for Homecoming festivities at one of the following locations:

— Alumni Lounge, Castleman Hall, 8 a.m. – 7 p.m. Friday, Oct. 1

— Alumni Tent, outside Allgood-Bailey Stadium, 10:30 a.m. – 1 p.m. Saturday, Oct. 2

State of the alumni association



Dear fellow alumni:

As I near the end of my term as president, I want to share with all of you the exciting things happening with the Miner Alumni Association.

Hasselmann Alumni House

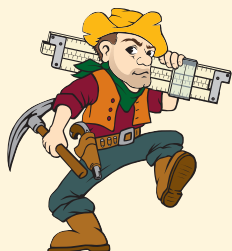
An architect has been selected to design a "house" for the alumni association.

This place to call home for alumni will also provide office space for the alumni staff members. It will forever change the history of this association and this campus – and at the ideal time. As state support erodes, alumni will need to be more involved and committed than ever before in our history.

Main focus of the alumni association

When many think of the Miner Alumni Association, events and reunions often come first to mind, but our association is so much more. **Raising funds for student scholarships is our number one priority.** Beyond the association, our board members:

- advise the administration via the alumni association Board of Directors and the university's Board of Trustees
- connect and network with each other and the alumni association through *Missouri S&T Magazine*, the Miner Connection online community and section events throughout the country and on campus
- advise and aid the various departments on campus via the Board of Directors, department academies and numerous industry advisory committees
- raise funds for departments, in addition to the \$500,000 in scholarships we provide to students every single year
- organize special reunions for our 25th and 50th anniversary classes
- partner with fraternities and sororities for their special events and reunions
- provide opportunities for alumni to create endowments to support students and establish charitable gift annuities
- return to campus to speak during classes, at leadership events and to student organizations
- open their homes to student design teams as they travel around the country.



Great leadership from the chancellor and the University of Missouri president

Throughout these past few years, we have had the benefit of extraordinary leadership and insight from Chancellor John F. Carney III and University of Missouri System President Gary Forsee, CE'72. We have had the good fortune to have these two individuals as our leaders at this critical time in our economy.

Tough economic times

During the recent global financial crisis, times have been difficult for almost all of us in some form. Some have lost jobs and others have had to re-start careers. Others struggle with retirement funding and an uncertain future. Some are struggling with a combination of all of these. I understand all of these issues from a most personal perspective.

Personal giving thoughts

It took me several years to reconnect with the alumni association after I graduated. After taking stock of what a degree from our alma mater meant to me, I realized that we all had an obligation to help future generations of students seeking a degree from our prestigious institution. It makes no difference whether you had a great deal of financial aid, worked your way through school or incurred debt via student loans.

There is no better or quicker way to fundamentally change someone's life than through a good education. And there is no better education that gives the graduate so many potential opportunities than a degree from Missouri S&T.

We are a very fiscally conservative group, governed by 60 graduates who volunteer their time and energy to strengthen the association and the university. The money that is donated via the Miner Alumni Association is well managed.

As always we appreciate your support of both time and money. If you have any questions about how you can help the alumni association AND your alma mater, please do not hesitate to contact me or our executive vice president, Marianne Ward, through the alumni office.

Sincerely,

Perrin R. Roller, GeoE'80
President, Miner Alumni Association

Miner Alumni Association represents and serves more than 50,000 graduates and former students. Today's association carries on the proud tradition of support to Missouri S&T, providing more than \$500,000 in annual aid to campus students, faculty and staff.

Alumni Association hosts May 2010 graduation celebrations

More than 140 seniors celebrated their graduation at Grad Finale gatherings hosted by the Miner Alumni Association in May. **Alex Fетters** won an Apple iPad that was generously donated by **Susan Watson-Hajjar**, CSci'83.

Missouri Legislative Day 2010

On March 1-2, Missouri S&T alumni and friends visited with lawmakers in Jefferson City to garner support for the UM System as part of Legislative Day at the Capitol.

Delbert Day, CerE'58, Curators' Professor emeritus of ceramic engineering at Missouri S&T, received the Presidential Citation Award from UM System President **Gary Forsee**, CE'72, for his 50 years of service through teaching and research to the campus. Day holds 45 patents. The March 1 banquet was organized by the UM Alliance, led by **Larry Hendren**, MinE'73.

The next day, Gov. Jay Nixon spoke about the importance of higher education to the state at a rally for the UM System, and alumni visited with legislators focusing on Access Missouri scholarship equalization.

Researchers from Missouri S&T showcased their cutting-edge projects on the third floor of the Capitol, drawing an audience with legislators and visiting with school children and the public.

Those in attendance during the two days included Day and his wife, Shirley; **Robert**, CE'49, and Peggy **Bay**; Chancellor **John F. Carney III**; **John Eash**, AE'79, MS EMgt'90; **Lister**, CE'95, MS IST'06, CSci'07, and Caleb **Florence**; **James Foil**, CE'74, MS CE'75; Hendren and his wife, **Polly**, EMgt'73; **Michael McMenus**, LSci'81; **Chris**, MetE'83, MS MetE'85, and **Darlene**, MetE'84 **Ramsay**; **Susan Rothschild**, CSci'74; and **Marianne Ward**.

Calendar of events

For a listing of section events go to:
alumni.mst.edu/events/sectionevents.html

August

	SUN	MON	TUE	WED	THU	FRI	SAT
6:	01	02	03	04	05	06	07
16:	08	09	10	11	12	13	14
18-26:	15	16	17	18	19	20	21
23:	22	23	24	25	26	27	28
	29	30	31				

September

18:				01	02	03	04
	05	06	07	08	09	10	11
20:	12	13	14	15	16	17	18
21:							
30:	19	20	21	22	23	24	25
	26	27	28	29	30		

October

1-2:						01	02
	03	04	05	06	07	08	09
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						

Future dates to save

NOV	
5	Founders' Day

For more information on any of these events
contact the alumni office at alumni@mst.edu or call 573-341-4145.

St. Pat's 102nd Best Ever



Miner Alumni Association sections around the world broke out their green to party for St. Pat's. Check out the following pages to see how your fellow Miners celebrated 2010's Best Ever.

Names of attendees for each section's event are available online at magazine.mst.edu.

 Indicates the section has a Facebook page.



Alaska

March 17 – Von '78 and Jan Cawvey residence, Anchorage, Alaska



Carolinas Piedmont

March 6 – Tra' Li Irish Pub, Raleigh, N.C.



Dallas-Ft. Worth

March 20 – Willhoites, Grapevine, Texas



Bay Area

March 14 – Rosie McCann's Irish Pub, San Jose, Calif.



Cincinnati-Dayton

March 20 – Claddagh Irish Pub, Mason, Ohio



Indianapolis

March 19 – Claddagh Irish Pub, Indianapolis

Central Ozarks

March 13 – Miner Alumni Association, Rolla, Mo.





MD-VA-DC

March 20 – Bob '73 and Janet Scanlon residence, Brookeville, Md.



NE-IA

March 20 – Nebraska Brewing Co., Papillion, Neb.



Kansas City

March 10 – Fox and the Hound, Overland Park, Kan.



Mid-Missouri

March 6 – Stockton's Pub and Grill, Osage Beach, Mo.



Northern Alabama

March 27 – Christian '95 and Christina '95 Cook residence, Huntsville, Ala.



Lincolland

March 14 – Ed '69 and Anne Midden residence, Springfield, Ill.



Motor City

March 20 – Ginopolis' on the Grill, Farmington Hills, Mich.



NY-NJ-CT

March 21 – Helene Hardy Pierce '83 and Riley Pierce residence, Andover, N.J.



Portland

March 13 – Paddy's, Portland, Ore.



Springfield

March 13 – Trolley's Bar and Grille, Springfield, Mo.



St. Louis

March 3 – Hotshots Sports Bar and Grill, St. Charles, Mo.



Rocky Mountain

March 13 – Giggling Grizzly, Denver



Southern California

March 13 – K.C. Branaghan's Irish Pub, Long Beach, Calif.

Houston Section Scholarship Golf Tournament

March 18 – Scholarship golf tournament, silent auction and dinner
Bay Oaks Country Club

Pictured below: Houston Section first-place team members Jeff Fitzgerald, Eric Potts '73, Wendell "Buddy" Barnes '73 and Matt Barnes.



Black and Gold sponsors:

ESPA Corp.; McDonough Engineering Corp.; Montgomery and Barnes Inc.; Traffic Engineers Inc.; Tudor; Pickering; Holt and Co. Securities Inc.

Hole sponsors:

Russ Herring '59; Landtech Consultants; Eric Potts '73; Terracon Consultants Inc.; and Herman Vacca '60

Beverage sponsor:

KBR



St. Louis

March 20 – Bruno's Grill, St. Louis

SW Florida



March 20 – Islamorada Fish Co., Fort Myers, Fla.



March 27 – Tampa Bay Brewing Co., Tampa, Fla.

The following sections also gathered to celebrate St. Pat's 102nd Best Ever

Air Capital

March 20 – Tony '98 and Laura '99 McLaughlin residence, Wichita, Kan.

Austin-San Antonio

March 17 – Mother Egan's Irish Pub, Austin, Texas

Chicago

March 21 – Elephant and Castle Pub, Chicago

Coastal SC-GA

March 29 – Katie O'Donald's Irish Pub, Bluffton, S.C.

Driftless

March 13 – Whistle Binkie's on the Lake, Rochester, Minn.

Enchanted

March 20 – ABQ Brewpub, Albuquerque, N.M.

Falls of the Ohio

March 11 and 13 – O'Shea's Irish Pub and Molly Malone's, Louisville, Ky.

Flint Hills

March 18 – Tailgators Sports Pub, Topeka, Kan.

Heartland

March 17 – Beef O'Brady's, Owensboro, Ky.

Mid-Tennessee

March 16 – Blackstone Brewery, Nashville, Tenn.

Miner Music

March 13 – Band Room, Missouri S&T, Rolla, Mo.

Oklahoma

March 11 – Kilkeny's Irish Pub, Tulsa, Okla.
March 13 – TapWerks Ale House, Oklahoma City

Pacific NW

March 17 – McCormick & Schmicks, Bellevue, Wash.

Peoria

March 9 – Kelleher's Irish Pub, Peoria, Ill.

Phoenix

March 3 – Rula Bula, Tempe, Ariz.

Rocky Mountain

March 20 – White Fence Farm, Lakewood, Colo.

Twin Cities

March 29 – Claddagh Irish Pub, Maple Grove, Minn.

Alumni, family and friends gather in 55 sections around the world. Here is a glimpse of their activities.

Submit your section news by Aug. 9 to alumni@mst.edu for inclusion in the Winter 2010 issue.

austin-san antonio

March 6 – Barbecue – Roger '65 and Sandy Dorf residence – Austin, Texas
Attendees included S. Clark Allen '65, '67, '71; Roger '65 and Sandy Dorf; Nik '98 and Brittany Jedrzejewski with children; Lloyd '67 and Eleanor Langsdorf; Mike '83 and Angela Mohan; Doug Norton '85; Robert Villhard '85 and guests; Greg '76 and Kathy Williams; and Tom Zuiss '78. Missouri S&T representatives: John F. Carney III; Patty Ingle and Trudy Pischer.

central ozarks

Jan. 29 – Dinner Social with S&T Engineers Without Borders and S&T Students Today, Alumni Tomorrow – Alumni Lounge – Rolla, Mo.

Attendees included Ed '78 and Sue Albee; Dustin Bales; Bradley Brookshire; Ryan Buschjost '94; Mike Calandro '81, '91; Amanda Foster; Ken '79 and Liz Foster; Neal Grannemann '61; Cindy Harris; Jennifer Hoffman; Robert '87, '89 and Joanne '91 Holmes; Brooke Honeycutt; Ryan Huber; Tony Lambropoulos; Tom Mills '73, '75; Kim Morgan '94; Sheila Packard; Gary '60, '66 and Barbara '61, '65, '85 Patterson; Ellen Ruppert; Matt Schultz; Alicia and Katherine Stockdale; Mike Webb '89; Keith '70, '71, '73 and Bobbie Wedge; and Barbi Wheelden. Missouri S&T representatives: Judy Cavender; Greg Harris; David Hoffman '65, '67; Jim Packard and Marianne Ward.

Feb. 12 – Alumni Night with S&T Basketball team – Randy's Roadkill Barbecue and Grill – Rolla, Mo.

Attendees included Natalie Bozeka; Don and Nancy Brackhahn; Lee Buhr; Byron Bundy; Courtney Campbell; Gene Edwards; Harold '66 and Joyce Fiebelman; Bryce Foster; Brian Gifford; Jordan Goodson; Hank Harris; Aaron Hays; Marquis Jones; George Karr '92; Lisa and Tyler Kean; Adam Knollmeyer; Anton Korloev; Mike Malat; A.J. Mandani; Meghan McKinnon; Thomas McKinnon; Rex '71 and Nancy Medlock; Amy Mosely; Curtis Mosley Jr.; Casey Noll '09; Bob '55 and Tommie Ruth Oetting; Aaron Redecker; Jernsen and Jan '82, '96 Skouby; DeJon Slaughter; Eli Steinbeck; and Taurence Townsel. Missouri S&T representatives: Tyrone Davidson '08; Jim Glash; Joey Goodson; John Kean; Luke Rinne and Marianne Ward.

falls of the ohio

Feb. 4 – S&T Basketball game and dinner – Bellarmine University – Louisville, Ky.
Attendees included Dirk '91, '98 and Nickie Gowin; Gary '71 and Ellen Hamilton; Karen Maag; Ray Maag '50; Bob Morfeld '69; Bob O'Brien '54; Bob O'Brien Jr.; and Darren '83 and Britt Washausen.

ne-ia



Jan. 16 – Omaha Lancers hockey game – Omaha Civic Auditorium – Omaha, Neb.

Attendees included Luciano Boderio '08; Bob Carlson; Mike Carlson '99; Oscar Castellanos; Clint Galaske '09; Collette Galaske '06; Andy Lozier '06; Steve '70 and Kathy Masters; and David and Patricia '00, '02 Rohan.

pacific nw



Jan. 29 – Young Alumni Happy Hour – Tap House Grill – Bellevue, Wash.

Attendees included Adrian Abrudan '04; B.J. '02, '05, '08 and Emilie '08 Braatz; Brian '01 and Erin '01 Chamberlain; Toni Chang '08; Scott Hawley '98, '00; Jeff '04 and Barb '04 Leonard; Paul Leonard '06; Larry Leone '00; Rob Melsheimer '05; Ryan '01 and Carrie '00, '03, '06 Rule; and Mandy Zheng '07.

springfield

Jan. 16 – S&T Basketball game and dinner – Drury University – Springfield, Mo.

Attendees included Dick '85 and Robin Ball; Bob '62 and Jacquie Faenger; John '66 and Linda Henry; Matthew '09, Jennifer, Trinity and Noah Koontz; John '68 and Alice Munns; Steve '98 and Amie '98 Squibb; and Jessica Ward. Missouri S&T representative: Marianne Ward.

Tharp built a booming business

Chuck Tharp, CE'60, founded a company that has grown from a mom-and-pop shop to a firm with offices on four continents.

Tharp is chair of Environmental Dynamics Inc., a 110-worker business headquartered on a 14-acre campus in Columbia, Mo. The company manufactures aeration systems that efficiently boost the oxygen level in water. Many of its clients are municipalities that use Environmental Dynamics' diffusers in their wastewater treatment plants.

Tharp sold 75 percent of the company to four employees earlier this year.

1941

Nathan David Jaffe, MetE: "My beautiful wife, Bena, died Aug. 1, 2009. We had a wonderful life together – 62 years."

Marvin E. "Bob" Nevins Jr., MetE: "We spend seven months in Naples, Fla., and five months in Waukesha, Wis. We still play golf three to four times a week, but on grass greens, not sand greens a la Rolla-Muni, where professors Boots Clayton and Spike Dennie cleaned our clocks in the late '30s."

1946

Kenneth M. Wilhelms, CerE: "I've been retired 21 years. My wife and I live at Meramec Bluffs Retirement Home in Ballwin, Mo."

1947

Glenn H. Fritz, MinE: "At 90, life is better than expected. I often wonder how many of the class of '47 are still standing – and walking."

1948

Wilbert F. Stoecker, ME: "Pat and I celebrated our 60th wedding anniversary. I work part time for a local air conditioning and refrigeration research laboratory."

1949

John E. Stein, PetE: "Dorothy and I are still in Denver, in spite of the winter snow and cold."

1951

Gilbert L. Crowell, CE, has been married for 62 years and has three children, six grandchildren and seven great-grandchildren. He has lived in southern California for 47 years, working as a senior facilities engineer for General Dynamics for 12 years and as chief inspector for the City of Vista Building Department for 12 years.

John A. Hirner, EE: "My wife, Sue, and I still live in Summit, N.J. I still recall my time at Rolla. I am aware that much has changed."

Mario R. Trieste, ChE: "Happily retired at 82."

1953

John Robert McDonald, GGph: "Still enjoy retirement after 20 years. Live six months in Flagstaff, Ariz., and six months in Dallas – how lucky can you be?"

1954

Gordon B. French, GGph, MS GGph'56: "I am proud of my degrees because what I learned has prepared me for every challenge that various companies have thrown at me." He and his wife, Shirley, celebrated their 60th anniversary in March. They were married in Rolla and Lambda Chi Alpha fraternity hosted their reception.

1957

Robert G. Fuller, Phys, co-edited a book, *College Teaching and the Development of Reasoning*, published by Information Age Publishing Inc. of Charlotte, N.C.



Charles "Al" Wentz, ChE, MS ChE'59, published his third cookbook. All proceeds from its sale go to

support the Wentz Family Scholarships at Edwardsville (Ill.) High School. Since 1998, \$201,000 has been awarded to students at the high school.

1959

Raymundo J. Chico, MS GGph: "Beverly and I celebrated 50 years of marriage in July 2009. My diploma issued by the Curators of the University of Missouri School of Mines is on the wall of my small office. I am very proud of my degree."



G. Willard Jenkins, ME, donned his Missouri S&T cap when he and his wife visited

the Great Wall of China last September. "Kay and I ran into another Miner in the hotel in Beijing who was wearing an MSM shirt. We had a great trip."

1960

John H. Miller, CerE: "I continue to run my business in Colorado doing patent work for corporations and a few individuals. My wife, Barbara, and I hope to see old friends when we attend Homecoming."

1961

William E. "Bill" Mathews, CE: "Judy and I traveled on military aircraft in 2009 (a retirement benefit) to Hawaii, Germany, Ireland, Greece, Austria and New Zealand. We enjoy our two granddaughters near our Plano, Texas, home."

1962

Henry Pat Duvall, Math:
"Enjoyed a month in Hawaii and a cruise to Mexico in 2009. My fourth grandchild was born to my daughter, Kim, in April 2009. I'm still tutoring math and physics at a local community college."

Bhalchandra T. Dave, ChE,
MS ChE'64: "I retired as director of engineering at Chemtura Inc. I enjoy retirement with extensive travels and watching four grandkids grow up and participate in school activities."

1964

Kenneth D. Pohlig, ME, MS
EMgt'69, MS CE'74, joined DOTec Engineering as the senior vice president of marketing. DOTec is a product design, development and forensic engineering firm based in St. Charles, Mo.

1967

T. Michael McMillen, CE, MS
CE'69, is president-elect of the Academy of Geo-Professionals. His term will begin in October 2010.

Robert E. Turner Sr., MetE:
"Nicki and I are both retired and thoroughly enjoying our time together and our seven grandchildren. We are fortunate that our three children and their families are near."

(continued on page 38)

Snooping around



For 30 years, **Carl Carver** was a professional snoop.

Carver, PetE'59, spent the majority of his career investigating insurance claims for Shelter Insurance Co. in Columbia, Mo.

"Insurance companies like to pay claims they owe," Carver says. "They just don't like to be taken."

Carver has investigated disability claims, car wrecks and life insurance cases. In one case, he tracked down a "dead" man who had fallen off a tow boat 11 years earlier. As it turned out, the man hadn't drowned – he had amnesia.

"The family didn't want him back and the insurance company didn't get the money back," Carver says. "But it was successful from my point of view because I found a man who had been 'dead' for 11 years."

In another case, Carver tracked down a man in Louisiana who was allegedly disabled from a severe back injury. He found the man actively umpiring a girl's softball game. "He was supposed to be completely disabled," Carver says. "I photographed him sweeping off home plate."

Carver conducted his searches in the days long before Google. In order to get information, he had to go find the public records himself. He says the county seat was always his first stop.

Carver recently self-published a book about his adventures called *Professional Snoop*. The book is available from online bookseller amazon.com.



Front (left to right): Tom Green, Bruce Berwick, John Borthwick, Steve Kerr, Mark Clauss, Kara Kimmel, Steve Young, Tim Swinfard, Kurt Schauwecker. Back (left to right): Gary Black, Paul Roland, Brett Agee, Bob Etien, Matt Russell, Dan Bailey, Chris Thielker, Tyler Montileone, Charles Hawkins.

Alumni return for 5K

Nineteen alumni competitors raced the alumni 5K on the S&T golf course Saturday, Oct. 10. **Chris Thielker**, EE'08, was this year's men's winner in 17:40, followed by **Kurt Schauwecker**, a senior in mechanical engineering in 18:37, and **Steve Kerr**, EE'03, in 19:16. Kerr earned bragging rights as the top 5K finisher who also competed in the previous day's 1-mile tune-up race. **Kara Kimmel**, ME'92, MS ME'99, was the top women's alumni finisher in the 5K. **Dave "Willie" Vonarx**, CE'89, was the top master's alumni team finisher in the 5K with a clock time of 19:07 (age-adjusted 18:09). For their victories, Chris, Willie, and Kara each had \$120 donated in their names to the Friends of Cross Country Endowed scholarship fund. "Even using age-adjusted times for the older alumni, the 'under 30' alumni team still defeated the 'over 34' alumni team by a score of 25 to 34," says **John Borthwick**, PetE'85.

1970



John Evans, Math, after 13 years of part-time study, earned his Ph.D. in systems engineering and operations

research from George Mason University. Currently a space systems architect at The Aerospace Corp. in Chantilly, Va., Evans is a retired Army lieutenant colonel and a retired senior intelligence officer for the Defense Intelligence Agency. He is raising his 5-year-old grandson and sings bass-baritone and plays the mandolin in a bluegrass/contemporary gospel "boy band" at his church.

Rob Green, ME, has worked for Kansas Gas Service, a division of ONEOK, for 38 years. He is currently director of engineering and still enjoys his job. He and his wife, Marcella, live in Lawrence, Kan.

Thomas E. Schmidt, GeoE, MS GeoE'71: "After 22 years at Swift Energy, I retired as the vice president of operating compliance and external relations. However, I have accepted the position as president of Jordan Oil Co., so retirement remains for the future."

J. Joseph Tyler, ME, has joined Versar Inc. as senior vice president and director of corporate initiatives.

Robert J. Wesely, CE: "I left Fluor after 22 years of onsite engineering and contract management positions. I started working for Louisville Metro Air Pollution Control District in 2007. Denise and I have been in Louisville (Ky.) for 16 years and counting."

1971

Richard W. "Rich" Eimer Jr., EE: "After nearly 38 years of service to Dynegy, its predecessors, and the power industry, I retired in October. I am exploring the scary world of 'retirement' to see why all those who have gone before me always seem to be smiling! I will miss my friends and colleagues that I have worked with over the years, but I plan to golf, travel and continue to be active with the Miner Alumni Association and the Academy of Electrical and Computer Engineers. If you're in the Houston area, email Cathy and me at cocoabean77@comcast.net."

Homecoming family reunion



Don Ascoli, EE, and his brothers, **Doug**, CE'77, and **Dale**, CE'84, brought their wives to the 2009 Homecoming game to see the Miners win. They also attended the awards banquet that evening and had a great time reminiscing. Pictured from left to right: Dale and Annie Ascoli, Anne and Don Ascoli, and Doug and Cindy Ascoli.

Society of Mining, Metallurgy and Exploration (SME) Reception

March 2 – Sheraton, Phoenix

The Miner Alumni Association and the Phoenix Section hosted a reception for alumni, faculty, staff and students in conjunction with the Annual Meeting and Exhibit in Phoenix. Thank you to our co-sponsors: Barrick, The Doe Run Co., and the S&T geological sciences and engineering and mining and nuclear engineering programs.

Attendees included Eric Achepohl '97, '01; Don Ascoli '69; Bill '73 and Lee Ann Beck; Tim Beck '00; Frank Benavides '70; Fred Brost '63; Karl Brown '62; Rich Budinger '96; Dick Bullock '51, '55, '75; Jere Cadoret; Jason Carter '02; Joshua '06 and Jaxxon Chlopek; Randy Dietrich '70; Don Dowling '51; Brianna Drury; Don '02 and Jami '03 Dwyer; Vanessa Eckhoff '06; Angelique Ernst; Dale Elifrits '76, '80; Garrett Frey; Fio Giana '05; Scott Glitner '84, '86; Ben Grau '06; Jill Groebelinghoff; Fred Gronlund '66; Jack '50 and Denise Guth; Bill Hallett '55; Randal Hanning '87; Stan Hansen '67; Marcia Harris; Joshua Hoffman '07; Carolyn Jennings; Gordon '59 and Loretta Johnson; Tristan Jones '08; Tina Kliebert; Jim Kvitkovich; Hai Lan '08; Adam Lewis '04; Braden Lusk '00, '06; Anu and Verna Martikainen; Clay McNail '98; Michael Moats '92, '95; Greg Moellering '88; Kurt '85 and Joan Oakes; Bill Orr '77; Jason Ovanic '87, '90; Dustin Penn '02; Gene '62 and Judy Rand; Hank Rawlins '91, '92, '08; Paul Ridlen '89, '91; Bryan Ripp '84; Brian Sandhaus '09; Lee Saperstein; Jim '67, '69 and Diana Scanlan; Jacob Scherer '05; John Schillie '98; Michael Schlumpberger '85; Mark Schmidt '98, '01, '06; Cheryl Seeger '80, '87, '03; David Smith '79; Greg Sutton '88; Han Tang '07; Richard Terry '65; Jack Thrower '77; Manuel Tueros; Tom Wetteroth '79, '85; Daniel Vidt '08; Tanya Walkenbach '08; and Dorothy Walters. Missouri S&T representatives: Kwame Awuah-Offei '06; Nancy Corcoran '07; Samuel Frimpong; Greg Galecki; Mao Chen Ge; Barbara Robertson; Elaine Russell and Jerry Tien '88.

Rich Starke, MetE: "My son, Matt, works for ITSI and recently passed the LEED AP test. My wife, Pagamas, and I went back east in May 2009 to get her caught up in 'been t'all states' with me. She had 34 and I had 49. After visiting friends in D.C., **Jim Hellwege**, ChE'71, gave us a ride to Dulles. In November we flew to Hawaii to visit our 50th state. Now how many territories are there?"

1972

Richard Dickinson, PhD Chem, was named lead consultant to Kevin Kennedy Associates.

1974

John W. Gibson, EMgt, was elected president of ONEOK Inc. He also serves as CEO of the company and is chair of its board of directors.

1975

George M. Dolson, EE, spoke on the cardiovascular effects of dietary potassium at the World Hypertension Conference 2009 in Beijing, China, last fall.

Michael Hillhouse, CSci, reports his oldest son, David, married Lisa Herbst in November in Downer's Grover, Ill.

Daniel M. Wilson, MS EMgt: "I'm a retired Army engineer still working as an engineering consultant, a building commissioner and a teacher at both the graduate and undergraduate levels. Life is good."

1976

David Dillard, EMch, MS EMch'78, received the 2010 Award for Excellence in Adhesion Science, sponsored by 3M. He holds the Virginia Tech Adhesive and Sealant Science Professorship.

James V. Leonard, MS EE, PDD EE'84, was named an IEEE Fellow, Class of 2010, for his contributions to the integration of military avionics.

1977

Doug Ascoli, CE, see note under **Don Ascoli**, EE'69.

Paul Eloie, MS Math, PhD Math'80: "My son, Nathan, plans to begin graduate studies at S&T in computer science after he graduates in May of this year."

L.G. Loos II, CE, MS CE'82, and his wife, Cathy, live in Kirkwood, Mo. L.G. is the engineering manager for the city of Maryland Heights and Cathy is a professional artist with a gallery in Kirkwood.

Gary K. Warren, ME: "I live in Denver now and work for Halliburton in oil field services. My office is three blocks from Coors Field – how much better does it get? I plan to retire in a few years because this is the best place I have found after 30 years of moving around the U.S."

1978

Michael J. Busby, CE, see note under **Barbara E. Busby**, MinE'79.

Danny C. Vance, PetE: "All is well in Lexington, Va. Lauren graduated from Princeton and works for Credit Suisse in New York City. Sarah is a senior at Princeton and is captain of the Lacrosse Team. Michael is a sophomore at Episcopal High School. Kathleen keeps us organized."

1979

Barbara E. Busby, MinE: "Still selling coal for Peabody. Our middle son, **Jeffrey Busby**, EMgt'08, works for ABB. Our youngest son, Andrew, is a sophomore in mechanical engineering at S&T and is a Pike."



Ron Krusie, CE, MS CE'86, joined Burns & McDonnell to direct the firm's St. Louis water and wastewater practice.

1980



Eric Stassevitch, CE, joined Gannett Fleming as a senior project manager in its San Francisco office.

Betty Ellsworth Ungerman, PetE: "All is well here in Dallas, though the politics can get a little scary. Our kids, Meyer, 15, and Megan, 11, are having fun and enjoy school. Steve and I still practice law. I'm chief IP counsel with Lennox International Inc. and Steve runs his own practice."

1981



Ron Jones, EMgt, joined Burns & McDonnell to direct the firm's Process and Industrial Group in St. Louis.

1983

Gabriele F. D'Alleva, MS EMgt, celebrated the birth of his granddaughter, Samantha, on Dec. 14, 2009.

Jack Preston Taylor, ME, joined Heneghan and Associates P.C. in March 2009, as a senior mechanical engineer and project manager.

Darren Lee Washausen, MetE: "I will soon celebrate my 10th year with Samtec Inc. as vice president of global quality and engineering support. Our family has been blessed in many ways and our focus is on the fatherless children of this country."

The changing war in Iraq

Capt. John Lynn Beck Jr., MS EMgmt'05, is in Iraq for the third time and has noticed a significant change since his first tour of duty in 2003.

"When we first came here, we came to win a war, so our posture was really aggressive," Beck recently told the *St. Clair (Ala.) Times*. "Now we have far less combat agendas, which translates to other missions."

Beck commands a combat engineering company in the Diyala Province in Iraq. The company previously spent its time in combat, enabling other troops to move freely on the battlefield. They used berming techniques to defend equipment and searched for improvised explosive devices (IEDs).

Beck's company is currently involved in site work needed for construction jobs. They help build the basic infrastructures of society, like utilities, trash services and water storage facilities, as well as putting in place the necessary support for academics.

"Everything we do allows us to start working on giving the country back to the Iraqi people," Beck says.

(continued on page 40)

Joe sighting



Missouri S&T mascot Joe Miner was spotted doing some moonlighting in his spare time.

"I know the economy is bad," says **James Howe**, ME'89, but "did Joe Miner really need to take a second job, plugging steak sandwiches for Jon Smith's Subs in Jupiter, Fla.?"

Robert S. White, AE, was appointed president and CEO of TYRX Inc.

1984

Dale Ascoli, CE, see note under **Don Ascoli**, EE'69.

1986

Douglas E. Dillard, MS EMgt, retired from Boeing St. Louis in October 2008, after 34 years with the company. He now volunteers at Wings of Hope's computer support department and at Byteworks, and teaches computer skills at Our Lady of Perpetual Help.

Daniel Matthew Wilbers, ChE: "I am now engineering manager for power operator training simulators with Invensys. My wife and I just had our second child in October 2009."

1988

Curtis Schroeder, CSci, MS CSci'91, joined Antycip Simulation Ltd., a subsidiary of ST Electronics, as senior software engineer for its European team. He is also a member of S&T's computer science advisory board.

Edward Anthony Shepard Jr., CE: "In August 2009 I bought Genesis Solid Waste Group Inc., a company that provides engineering design and construction services to the solid waste industry. My wife, Heidi, and children, Jake and Sarah, live in Wildwood, Mo."

1989

Ali Simpkins, NucE, MS NucE'91, was selected to serve on the Nuclear Engineering Development Board at Missouri S&T. She is a radiation protection scientist for Dade Moeller & Associates in Richland, Wash.

1990

Jason Wayne Carter, MetE, retired in August 2009 as a commander from the U.S. Navy, after 20 years of honorable service. **Timothy J. Dickinson**, AE: "We are stationed at Hill Air Force Base near Salt Lake City, Utah. Come join us for some skiing: fivedickinsons@yahoo.com."

1991

Michael Tessaro, Econ, and his wife, Annette, opened an Italian-themed restaurant in Hallsville, Mo., called Tessaro's.

1993

Gregory George Lea, MetE: "We moved to the Youngstown, Ohio, area in September so I can better develop my aluminum extrusion consulting business."



Steve Myers, ChE, joined Burns & McDonnell as a senior process engineer.

1994

Steven Schultz, CE, joined SKW Inc.'s Columbia, Mo., office as a project manager.

1995



Robert Hormell III, ChE, joined Burns & McDonnell as a senior process engineer.

1997

Michael N. Clancy, EMgt, was promoted to lieutenant colonel in the New York district of the U.S. Army Corps of Engineers.

1999



Anna Saindon, GeoE, MS GeoE'01, PhD GeoE'04, earned state certification as a registered geologist in Missouri. She works for Geotechnology Inc. in St. Louis.

2000

Trish Gregg, GGph, and **Cory Pettijohn**, GeoE, live in Oregon where they are both post-doctoral fellows at Oregon State University.

Jonathan Shank, EE, and his family live in Stoughton, Wis.

2001

Brandon Hincey, ME, MS ME'03, joined the faculty at Cornell University as an assistant professor of mechanical engineering. He received his Ph.D. from the University of Illinois.

weddings

Brian David Bloodworth, CE'06, and **Pamela Sue Herberholz**, ArchE'07, CE'07, were married on Aug. 15, 2009, in Union, Mo. The couple lives in Fenton, Mo.

Steven W. Griffin, AE'07, married Lisa Dashnaw on Sept. 19, 2009. The couple lives in Ridgecrest, Calif.

Robert L. Nagel, MS ME'06, and **Jacquelyn K. Stroble**, EE'05, MS MfgE'07, were married on Nov. 18, 2009, in Philomath, Ore. The couple lives in Corvallis, Ore.

Garrett Prestegard, EnvE'07, and **Meagan Boyd**, EnvE'06, were married on Oct. 3, 2009. The couple lives in Ashland, Mo.

Miles C. Propp, MetE'99, married Samantha Lynn Mender on May 25, 2008. The couple lives in Bowling Green, Ky.

Devin Simms, EE'08, and **Tori Ratliff**, EE'09, were married on Aug. 8, 2009. The couple lives in Huntsville, Ala.

Chris Smith, Phys'94, married Pam Owens on Oct. 24, 2009. The couple lives in O'Fallon, Mo.

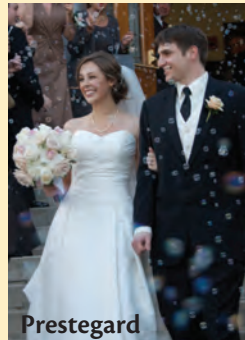
Sean Zuckerman, ChE'03, married Andrea Tuma on July 25, 2009. The couple lives in Cleveland, Ohio.



Bloodworth



Nagel



Prestegard



Simms



Smith



Zuckerman

If you would like a wedding announcement published, please email it to: alumni@mst.edu

Distilling chaos

Jake Emerson, MS EnvE'01, earned a bachelor's degree in mechanical engineering at West Point and spent eight years in the Army Corps of Engineers. In 13 years of engineering work that took him around the world, Emerson learned a lot about the art of distilling chaos into something manageable.

Currently, he is working on a Ph.D. in spatial information science and engineering at the University of Maine. Emerson is developing ways to help the state put together systems that would enable towns and counties to share information "so they can make decisions instead of waiting for others to make them."

Researchers at Maine like Emerson are using wireless technology to produce real-time information that would make responding to disasters more efficient. "It's important for the Maine National Guard and the Maine Emergency Management Agency to understand what the different technologies can bring them, and help them figure out when technology is useful and when it's not," Emerson says.

email

Send your email address to — alumni@mst.edu

Timothy J. Dickinson, AE'90:
fivedickinsons@yahoo.com

Richard W. "Rich" Eimer Jr., EE'71:
cocoabean77@comcast.net

Jared Jones, CerE'02:
jaredandtara@gmail.com

Jonathan Shank, EE'00:
jonathan_shank@hotmail.com

Betty Ellsworth Ungerman, PetE'80:
betty.ungerman@lennoxintel.com

Recent grad hires himself

After graduating from Missouri S&T, **David Pollack** soon realized that looking for jobs wasn't really his thing. He was more interested, as it turns out, in employing himself.

Pollack, ME'08, came up with a business plan and started Cornerstone Energy Solutions in Rolla. Cornerstone, which is already starting to turn a profit, trains energy auditors and weatherization technicians, performs energy audits, and sells do-it-yourself kits to help homeowners make their houses more efficient.

Now, not only does Pollack have a good "green" job – he's also in a position to employ others.

2002



Jared Jones, CerE: "2009 had many milestones and transitions.

In April, I was ordained at First Baptist North Mobile in Alabama. In May, I graduated with a master's of divinity from Southeastern Seminary in Wake Forest, N.C. In September, my wife, Tara, and I were appointed by the International Mission Board of the Southern Baptist Convention to serve in Japan, which is where we met in 2003. Tara, Eden, 2, and Elyssa, 1, and I moved to Takasaki in December. We are learning the language and ministering among the Japanese. To join our prayer update, please email us at jaredandtara@gmail.com."

2003



Dan Larson, CE, joined ARCO Construction Co. Inc. as a project manager.

2005

Maria (Conte) King, CE, received the Urban Conservationist of the Year Award from the St. Charles County Soil and Water Conservation District for a stream bank stabilization project in Lake Saint Louis, Mo. She is married to **Jeremiah David King**, CE'06.

2007

Kristen Louise (Loesch) Moynihan, CSci: "I got married! Hope everyone is doing well!" **Deepak Tickoo**, MS EMgt, published an anthology of essays based on his life experiences titled *Golden Words*. The book is available at online booksellers or by calling 888-795-4274, ext. 7876. Tickoo lives in Independence, Kan., where he works for a local engineering company.



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future miners



Nathan Bland, MinE'07, and **Katie (Boring) Bland**, CE'03, had twin boys, Owen Randall and Abram Richard, on Aug. 20, 2009.



Charles Cook, CE'95, and **Christina (Duker) Cook**, CE'95, had a girl, Rachel Alexis, on Dec. 9, 2009. She joins sister Sarah, 2.



Chad Cornwell, MinE'00, and his wife, Jamie, had a girl, Madeline Claire, on April 3, 2009.



Tiago Darocha, ME'02, and **Claudia P. (Mojica) Darocha**, ME'03, had a girl, Mariana Itzel, on Dec. 2, 2009. She joins sister Isabel, 2. Her grandfather is

Juan F. Mojica, MetE'74, MS Phys'74, PhD Phys'75.



Brandon Dudley, CE'01, and his wife, Olivia, had a boy, Andrew Michael, on Aug. 20, 2009. He joins brother Nathan, 2.

Chris Dunnaway, CE'06, and **Cindy (Mulnik) Dunnaway**, ArchE'05, had a boy, Wyatt Christopher, on Sept. 22, 2008. His uncle is **David Wilson**, AE'98.



Lee Dust, MetE'03, CE'07, and **Angie (Schmitz) Dust**, ChE'03, had a girl, Kaylee Jaiden, on Jan. 26, 2010.

Timothy Findley, MinE'01, and his wife, Sarah, had a boy, Cole, on Oct. 8, 2009.



Lucas Hillis, ME'03, and **Brooke (Antolak) Hillis**, EE'03, had a girl, Adalyn Nicole, on Aug. 25, 2009.



Keith Kreidler, MetE'99, and his wife, Lisette, had a girl, Mena Sofia, on Oct. 10, 2009.



Tony McLaughlin, ME'98, and **Laura (Bandy) McLaughlin**, EE'99, had a boy, Bennett Anthony, on Dec. 27, 2008. He joins sisters Annabelle, 5 1/2, and Lillian, 3.



Laura (Brave) Odicino, CSci'98, and her husband, Carlo, had a boy, Roman Alexander, on Sept. 20, 2009. His grandfather is **Phillip Brave**, ME'67, MS EMgt'72.

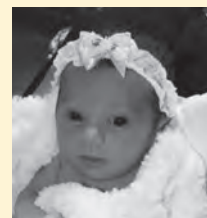


Cory Pettijohn, GeoE'00, and **Trish Gregg**, GGph'00, had a girl, Liona Noel, on Nov. 9, 2009.

Miles C. Propp, MetE'99, and his wife, Samantha, had a boy, Ethan Dennis, on Dec. 7, 2009.



Dave Redfearn, ME'02, and **Sheri (Lentz) Redfearn**, MetE'01, had a girl, Moriah Joy, on Oct. 5, 2009. She joins brothers Josiah, 4, and Elijah, 2.



Jonathan Shank, EE'00, and his wife, Debbie, had a girl, Elliana Avaline, on Aug. 28, 2009.



Joshua Sneller, CpEng'05, and **Erin (Miller) Sneller**, Math'05, had a girl, Kaelin Amethy, on Aug. 16, 2009.



Jared R. Wigger, CE'99, and **Lisa M. (Duncan) Wigger**, Hist'04, had a boy, Andrew, on Dec. 10, 2009.

He joins siblings Hannah, 4, and Caleb, 2. His uncle is **Joshua Wigger**, ME'04.

If you have a birth announcement, or a photo of your new little Miner, send it to us and we'll publish it in an upcoming issue. Email: alumni@mst.edu

policy

for publishing in *Missouri S&T Magazine*

- We are happy to announce weddings, births and promotions, after they have occurred.
- We will mention a spouse's name if it is specifically mentioned in the information provided by the alumnus/alumna.
- *Missouri S&T Magazine* will announce deaths, if information is submitted by an immediate family member, or from a newspaper obituary. Notification of deaths that have occurred more than two years before the date of publication will not be published unless a special request is made by a family member.
- Obituary information on alumni spouses will be printed only if the alumnus/alumna specifically requests that we print it.
- Date of death is noted in parentheses.
- We will print addresses if specifically requested to do so by the alumnus/alumna submitting the note.
- We reserve the right to edit alumni notes to meet space requirements.
- We will use submitted photos as space permits.
- Due to the production time required for each issue, submissions may take up to six months to appear. Your patience is appreciated.

1934



Frederic A. MacDonnell, ME
(Dec. 14, 2009)

1936



Herman J. Pfeifer Jr., MetE, was a member of Pi Kappa Alpha fraternity and was on the football and basketball teams.

He retired from Union Carbide after more than 40 years with the company. Mr. Pfeifer was inducted into S&T's Athletic Hall of Fame in four different sports. He was an active member of his church and in the community and was an avid golfer. (Dec. 28, 2009)

1940



Lee R. Johnson, ChE (Nov. 12, 2009)



Charles C. White, EE (Jan. 9, 2010)

1941



Herbert R. Stockton, CE
(Dec. 26, 2009)

1942



Ralph L. Neubert, ME (Jan. 10, 2010)

1944



William D. Hicks, ME
(March 26, 2009)

Harold Z. Hopper, NDD
(Nov. 10, 2009)

Warren Leroy Larson, MetE, served as an officer in the U.S. Navy during World War II. He earned master's and doctorate degrees in metallurgy from the Massachusetts Institute of Technology. His professional career was primarily in the Boston area with the Nuclear Metals Corp. and Supercon Corp., where he held several patents on superconducting magnet wire that is used in MRI machines. (June 14, 2009)



Alfred W. Thiele, ChE (Dec. 3, 2009)

1947



Malcolm H. McDonald, MinE
(Nov. 28, 2009)



Robert S. Phillips, CerE (Nov. 6, 2009)

1948



James E. "Jim" Chaffin, CE
(Jan. 15, 2010)

1950



Alexander H. "Alex" Baldo, MinE (Dec. 5, 2009)

Laurel "Blackie" Berger, CE, served in the U.S. Army and worked as a design engineer for the Illinois Division of Highways' Bureau of Design and Construction until his retirement in 1984. He was a professional engineer in Illinois and Missouri and a licensed land surveyor in Illinois. Mr. Berger won multiple awards and served in leadership roles for many professional and civic organizations. He was active in his church and had many interests, including golf, fishing, hunting, cooking and travel. (Nov. 25, 2009)



Roy T. Clayton,
PetE, served in the
U.S. Army as a staff
sergeant prior to
attending college.
For 35 years he
worked for

Halliburton Services where he was respectfully called "Cowboy" by his co-workers. Mr. Clayton was a professional engineer in Oklahoma and Texas and held many professional memberships. He had a deep appreciation of nature and enjoyed spending time in his cabin by the Big Piney River. (Jan. 9, 2010)



**Karlheinz
"Karl" Eissinger,**
GGph, CE'51
(Nov. 29, 2009)



Irvin J. Hawkins,
CE (Jan. 27, 2010)

1954



Eugene W. Ellis, EE
(Nov. 17, 2009)



**Herbert P. "Herb"
Pillisch, ME,** was a
member of
Lambda Chi Alpha
fraternity and
served in the
U.S. Army during

the Korean War. He retired from Prestolite Electric Inc. in 1997. (Aug. 26, 2009)

1956



**David E.
Thompson, CE**
(Oct. 17, 2009)

1957



John W. Rollins,
ME (Jan. 13, 2010)



Carl F. Wiemken,
CE (Nov. 13, 2009)



**Robert L. "Bob"
Wright, MetE,**
MS MetE'62, PhD
MetE'66
(Dec. 7, 2009)

1958



Thomas W. Eaker,
EE (March 26, 2009)

Aaron J. Greenberg



**Aaron J.
Greenberg,**
CE'50, died on
Oct. 26, 2009.
A recipient of
the university's
Alumni
Merit Award,
Mr. Greenberg

had a long history of supporting Missouri S&T through the Miner Alumni Association. He was instrumental in establishing the Class of 1950 Scholarship Fund and also supported future engineers through his Engineers of St. Louis Scholarship.

Upon his retirement from engineering, Mr. Greenberg received an Apple computer. He graciously donated that computer to Sherman School in St. Louis, where he was a faithful and dedicated volunteer from 1984 until the day of his death, helping students with science projects and spelling bee preparation.

Marvin L. Patton

Marvin L. Patton, director of physical facilities at Missouri S&T, passed away Jan. 17, 2010. Prior to becoming director of physical facilities in 1993, Mr. Patton was director of facilities planning and construction at West Texas State University in Canyon, Texas. He also worked for Northern Arizona University and the University of Oklahoma. He held a bachelor's degree in electrical engineering from Oklahoma State University and was a licensed professional engineer.

Irvin C. Spotte



Irvin C. Spotte, MetE'33, died on Nov. 5, 2009, at the age of 99. As a student, Mr. Spotte played on the MSM football team, was active in the Prospector's Club and was a founding member of the Alpha Iota chapter of the Sigma Pi fraternity in Rolla.

Mr. Spotte worked as a mining engineer in the Philippines at the start of World War II. After the bombing of Pearl Harbor in 1941, he enlisted in the U.S. Army in the Philippines. He and his wife, Flora, were captured in April 1942. Flora was interned in Manila; Irvin spent the next 39 months as a prisoner of war in Japan.

Upon his release, Mr. Spotte returned to the coal industry and spent more than 50 years working his way through the ranks to serve as president and chair of Pittston Co. Coal Group, and president of Sun Glo Coal Co.

He and his brother, the late Elmer Spotte, MinE'35, were featured in the Fall 2008 issue of this magazine as the oldest living Miner brothers.

(continued on page 46)

William F. "Fred" Lamar Jr.

Rev. William F. "Fred" Lamar Jr., a former campus chaplain at Missouri S&T, passed away on Jan. 13, 2010. Rev. Lamar was retired from his position as chaplain and assistant professor of education at DePauw University.

After serving as chaplain of the Wesley Foundation at what is now Missouri S&T from 1965-1974, Rev. Lamar joined DePauw. He had degrees from the University of Alabama, Vanderbilt University and Eden Theological Seminary. He also had a Ph.D. from Saint Louis University.

Rev. Lamar was the recipient of the 1996 Francis Asbury Award for Fostering United Methodist Ministries in Higher Education.

1960

Glenn I. Swartz, MetE
(Oct. 30, 2009)

1962



Robert L. Delp Sr.,
ME (Dec. 24, 2009)



Harvey G. Martin,
MetE, was a member of Kappa Alpha fraternity and the St. Pat's Board, portraying St. Pat in 1961. He retired from Metaullics in 2008 as the regional sales manager.
(November 2009)



Garland J. Powell,
MetE (Nov. 7, 2009)

1963



Paul N. Albrecht,
EE (Jan. 12, 2010)



James W. "Jim" White, ME
(Nov. 17, 2009)

1964



Charles E. "Chuck" Stack,
GGph
(Dec. 16, 2009)

1966



R. Joe Kasten,
MetE, was a member of Kappa Alpha fraternity, Intercollegiate Knights, Army ROTC and several

honor societies. He served as a second lieutenant in the Army Reserves after graduation, then earned a master's degree in 1967 from Ohio State University, followed by two years in the Army. Mr. Kasten worked in Ohio and Texas for 14 years with Armco Steel Corp., then worked for Oregon Steel Mills for 16 years until retiring as vice president of international sales. He was an Eagle Scout, was active in his community and church, and enjoyed trapshooting, skiing, woodworking and sailing.
(Jan. 27, 2010)

James M. "Jim" Phillips, PhD Phys
(Nov. 8, 2009)

1968



Arthur R.A. Schumacher,
MetE
(July 27, 2009)

1971

Howard D. Mayo, CE, served in the U.S. Army in Vietnam. He worked for the Missouri Department of Transportation in the bridge design department and at Van Buren Construction before joining Ozark Asphalt Co. in 1978. He was general superintendent there until he became general manager of Ozark/Jefferson Asphalt Co. In 2007, the company was purchased by Pace Construction Co., where Mr. Mayo worked as a construction manager until his death. He was a professional engineer and a past president of the Missouri Asphalt Pavement Association. His son is Harold Mayo, MinE'93. (Dec. 9, 2009)

1972

Leslie L. Pingel, MS EMgt
(Jan. 22, 2009)

1973



Ludwig J. Fischer,
EE (Dec. 3, 2009)



William L. Miller,
ME (July 2, 2009)

1975

Michael W. "Mike" Barnicle,
Math (Jan. 21, 2010)

1979

John H. McNally, MS EMgt
(Dec. 22, 2009)

1984

Jerry M. Shanahan, Econ
(Dec. 11, 2009)

1986

Phyllis J. Manes, NDD, was a member of Zeta Tau Alpha sorority and was a tax administrator for Centerre Bancorp. (July 20, 2008)

Warren E. Sumpter, ME
(Sept. 24, 2009)

2002

Jeffrey D. Spooner, PhD GGph, had been an adjunct faculty member in the history and political science department at S&T since 2003. He worked at the U.S. Geological Survey since 1985 and had served as chief of its geographic research and applications section since 2001. (Jan. 19, 2010)

2003

Deepak John Rasquinha, MS MfgE, was a process and foundry engineer with M.E. Global Inc. He passed away after an accident during a fishing trip in his favorite spot at Fremantle Harbour, near Perth, Australia. (Jan. 2, 2010)

Norman Tucker



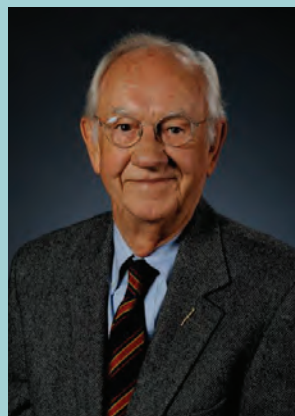
Norman Tucker, a longtime supporter of the university, passed away April 27, 2010. Mr. Tucker, MinE'40, was born and raised in Rolla. He graduated from Rolla High School in 1936. After graduating from MSM, he began a long career with the U.S. Air Force, attaining the rank of lieutenant colonel.

During World War II, Mr. Tucker was an aircraft maintenance officer. He helped keep B-24s flying over German-occupied Europe. During the Korean War, he instructed Air Force ROTC cadets at Rutgers University, where he also earned an MBA degree. In 1966-67, he went to Vietnam as a civilian to work as an air base construction engineer.

In retirement, Mr. Tucker and his twin brother **Armin Tucker**, also MinE'40, were among the biggest supporters of Miner athletics. The twins established the Armin and Norman Tucker Scholarship and funded the renovation that moved the coaches offices for men's and women's basketball closer to Billy Key Court. Armin Tucker passed away in 2006.

As students, the Tucker twins played collegiate basketball and ran track. They were both Honorary Knights of St. Patrick, members of the Miner Athletics Hall of Fame, and members of the Order of the Golden Shillelagh. The family suggests that memorial gifts go to the Armin and Norman Tucker Scholarship Fund at Missouri S&T.

Richard H. Bauer



Richard H. Bauer, ChE'51, passed away on Feb. 14, 2010, at the age of 79. Mr. Bauer was well known on campus for his many years of service to the Miner Alumni Association. He was a past president of the association, past president of the St. Louis Section, an Honorary Knight of St. Patrick, and a member of the university's Academy of Chemical Engineers. He was awarded the Presidential Citation from the University of Missouri for volunteer service in 1984. Mr. Bauer and his wife Shirley became members of the Order of the Golden Shillelagh in 1987.

Mr. Bauer was also a member of Pi Kappa Alpha fraternity. His son, Paul Bauer, delivered the eulogy for his father. "I have never known anyone who loved his college or his fraternity the way dad loved Rolla and the Miners and PiKA," said Paul Bauer.

Richard Bauer later earned a master of business administration degree from Washington University. He served in the Army from 1952-54 and in the Army Reserve from 1954-60. In 1969, he started his own business, Missouri Electrochem. The Affton, Mo., firm produces specialty chemicals for metal finishing.

In addition to the Miner Alumni Association, Mr. Bauer was a volunteer with the St. Louis County Planning Commission and other organizations. "We always laughed that, if dad joined an organization, any organization, it would usually be about six months before he'd be elected president," Paul Bauer wrote in the eulogy.

Marianne Ward, executive vice president of the Miner Alumni Association, says Mr. Bauer remained very active in these organizations throughout his life. "He actively participated in the alumni association board of directors and executive committee meetings, annually participated in our section events, including the St. Louis Section golf tournament, and attended Homecoming nearly every year," Ward says.

In his spare time, Mr. Bauer loved to build furniture and listen to jazz music.

Gordon M. Robinson

Gordon M. Robinson, a freshman in computer science from Independence, Mo., was killed in a vehicle accident Nov. 20, 2009. Mr. Robinson, 20, was a member of Theta Xi fraternity at S&T. He received his first computer at the age of 3 and mastered Zelda. He had a black belt in martial arts.

Chawada Tidimalo

Chawada Tidimalo, a native of Botswana, passed away March 7, 2010. Tidimalo joined the mining engineering program at Missouri S&T in August of 2009. She is survived by her parents, four brothers and a sister.

Jeff Wight

Jeff Wight, a senior electronics technician in the Missouri S&T Materials Research Center since 1985, died Jan. 18, 2010. He is survived by his wife, a daughter, a son and two granddaughters.

friends

Shannon S. Bain (Nov. 28, 2009)

Margo A. Brown (Jan. 4, 2010)

Marlys Brownlee (Oct. 13, 2009)

Ann M. Bruzewski, wife of the late Robert F. Bruzewski, MinE'47, MS MinE'49, and former professor of mining engineering at S&T from 1948-78. (January 2010)

William "Don" Coad (Nov. 29, 2009)

Grace M. Cook, wife of the late J. Robert Cook, ME'61 (Dec. 9, 2009)

Adolph E. Decker (Dec. 9, 2009)

Isabell M. Durrenberger, wife of the late Joseph W. Durrenberger, MinE'51 (Feb. 17, 2009)

Fred Dempsey Ettleman, retired custodian at S&T (Jan. 10, 2010)

Ida "Jackie" G. Freeman, former food service employee at S&T (Dec. 26, 2009)

Edythe "Edyie" Gable (Jan. 8, 2010)

Dorothy L. "Dottie" Gammon, wife of the late William H. Gammon Sr., ChE'49 (Aug. 16, 2009)

Dr. Gaoxiong Gan, retired assistant professor of mathematics and statistics at S&T (Dec. 18, 2009)

Maurice L. Happel (June 20, 2009)

Bena Jaffe, wife of Nathan D. Jaffe, MetE'41 (Aug. 1, 2009)

Paul C. Janaske (Sept. 20, 2009)

Victor A. Johnson, husband of Christina L. (James) Johnson, Hist'89 (Jan. 22, 2010)

Elvera "Evie" Limberg, wife of John F. Limberg, ME'64 (Aug. 7, 2009)

Kenneth B. Loy (Dec. 18, 2009)

Elizabeth G. MacConnell, wife of the late Frederic A. MacConnell, ME'34 (July 19, 2009)

Donald A. Markworth (Nov. 16, 2009)

Clarence H. Martin (Nov. 19, 2009)

Marilyn Moses, wife of William J. "Bill" Moses, ME'59 (Jan. 2, 2009)

Bonnie M. Redel, wife of Peter O. Redel, CE'55 (Dec. 2, 2009)

Eunice Ringenberg, wife of the late Charles P. Ringenberg, CE'58 (Jan. 26, 2010)

Frederick Rueffel III, retired custodian at S&T (Jan. 13, 2010)

Donald M. Russell (Dec. 2, 2009)

M. Kent Sanborn (Jan. 17, 2010)

Donald C. Sands, husband of Mary Lee Sands (Jan. 16, 2010)

Aaron P. Satterfield (Nov. 5, 2009)

William B. "Bill" Weber (Jan. 7, 2010)

Sam R. Woods (Oct. 25, 2009)

The Riess Family:

Building a pipeline to S&T



College wasn't on **Rob Riess Sr.**'s radar after high school, not until his older brother challenged him to give it a try. He attended community college for two years, did well, and decided to complete his degree at Rolla — a decision that led to an outstanding career in the energy transportation field.

Riess, CE'79, is now president and chief operating officer of Sheehan Pipe Line Construction Co. in Tulsa, Okla.

"You can get a good education anywhere," says Riess, "but what's important is you can get a job by going to Missouri S&T. It's all about the job."

He and his wife, Becky, recently established a \$100,000 scholarship for civil engineering students at Missouri S&T. Also contributing to the endowment are his two sons and their families: **Rob Riess Jr.**, CE'04, his wife, Allison, and their daughter, Taylor; and his son **Ryan Riess**, CE'06, and his wife, **Abigail**, Hist'05.

"Missouri S&T has been a big part of our family and has provided opportunities for us to succeed in engineering and in life," says Riess. "This scholarship fund represents our appreciation and gives others a chance to share in the same opportunities we were afforded."

Originally from Belleville, Ill., Riess paid his own out-of-state tuition to go to school in Rolla. He and Becky also paid out-of-state tuition for

their sons to attend. "Fortunately, our sons were academically blessed; they both received financial assistance with tuition."

Rob Jr. is a construction engineer for Chevron North America in the Deepwater Projects Group in Houston. Allison also works for Chevron as a petroleum engineer.

Ryan, like his father, works for Sheehan Pipe Line Construction Co., as a project manager/estimator. Abigail is a secondary social studies educator and athletics coach.

Rob Sr. and Becky enjoy hosting alumni events in their home and have been responsible for a number of out-of-state students coming to Rolla. Rob Sr. serves as an S&T admissions ambassador at Tulsa schools. The couple joined the Order of the Golden Shillelagh donor society at S&T in 2008.

"The main thing I want students to know is that you get out of college what you put into it," says Rob Sr. "A lot of people are having a tough time finding a job these days. Missouri S&T's reputation is well known; and students don't have to go looking for opportunities — companies look for them."

Pictured, front row: Rob Jr., Taylor, Allison. Back row (left to right): Becky, Rob Sr., Abigail, Ryan.



Miner Alumni Association

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Parents: If this issue of Missouri S&T Magazine is addressed to your son or daughter who has established a separate permanent address, please notify us of the new address: 573-341-4145 or alumni@mst.edu.

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under
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Help us choose S&T's most dynamic young alumni.

Thirty of them age 30 or younger, to be exact.

There's no limit to who you can nominate, as long as they were born after the "Empire" struck back, after Bill Murray declared war on gophers, and after the "Blues Brothers" went on a mission from God.

We're looking for people in all fields.

So go ahead. Nominate yourself. Nominate others. Just let us know who should be on the list.

<http://magazine.mst.edu/30.html>